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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: SABHA QAZI Examiner #: 74141 Date: 10/20/05
Art Unit: 1616 Phone Number: 2-0622 Serial Number: 10/714,870
Location (Bldg/Room#): 4445 (Mailbox #): 4C70 Results Format Preferred (circle): PAPER DISK

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Solid herbicidal formulation of Glyphosate

Inventors (please provide full names):

Jorge Gustavo Vigil et al. and process for its Preparation

Earliest Priority Date: 11/19/2002

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

cls 6-10, 12+13.
Please search for the preparation
of Solid herbicidal formulation of
N-(phosphonomethyl)glycine (commonly
called Glyphosate) as in cl 6.
Angiotensin agents are listed in cl 10

Please attached sheets.

Thank you

STAFF USE ONLY

Searcher: an

Searcher Phone #: 22504

Searcher Location: 10/31/05

Date Searcher Picked Up: 10/31/05

Date Completed: 10/31/05

Searcher Prep & Review Time: 20

Online Time: +60

Type of Search

____ NA Sequence (#)

____ AA Sequence (#)

☒ Structure (#)

____ Bibliographic

____ Litigation

____ Fulltext

____ Other

Vendors and cost where applicable

☒ STN ☐ Dialog

☐ Questel/Orbit ☐ Lexis/Nexis

☐ Westlaw ☐ WWW/Internet

☐ In-house sequence systems

☐ Commercial ☐ Oligomer ☐ Score/Length

☐ Interference ☐ SPDI ☐ Encode/Transl

☐ Other (specify)

=> fil reg

FILE 'REGISTRY' ENTERED AT 10:55:58 ON 31 OCT 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 30 OCT 2005 HIGHEST RN 866393-44-4
DICTIONARY FILE UPDATES: 30 OCT 2005 HIGHEST RN 866393-44-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d his

(FILE 'HOME' ENTERED AT 10:07:29 ON 31 OCT 2005)
SET COST OFF
SET COST OFF

FILE 'REGISTRY' ENTERED AT 10:08:20 ON 31 OCT 2005
E N-PHOSPHONOMETHYL GLYCINE/CN
L1 1 S E8
L2 760 S 1071-83-6/CRN
L3 58 S L2 AND H3N
E AMMONIUM BICARBONATE/CN
L4 1 S E3
L5 160 S 463-79-6/CRN AND H3N
L6 0 S L2 AND L5
L7 7 S L5 AND 2/NC
L8 172 S L2 NOT (MXS OR IDS OR MNS OR PMS)/CI
L9 39 S L8 NOT (COMPD OR WITH OR LABELED)
L10 7 S L4,L7

FILE 'HCAPLUS' ENTERED AT 10:13:32 ON 31 OCT 2005

L11 5510 S L1
 L12 240 S L9
 L13 395 S N() (PHOSPHONOMETHYLGLYCINE OR PHOSPHONOMETHYL GLYCINE OF PHOS
 L14 539 S PHOSPHONOMETHYLGLYCINE OR PHOSPHONOMETHYL GLYCINE OF PHOSPHON
 L15 6269 S GLYPHOSATE OR FOLUSEN OR FORSAT OR GLIALKA OR GLIZ OR GLYFOS
 L16 10 S PHOSPHOMETHYLGLYCINE OR PHOSPHOMETHYL GLYCINE OF PHOSPHO METH
 L17 7250 S L11-L16
 L18 8291 S L10
 L19 11556 S AMMONIUM() (BICARBONATE OR BI CARBONATE OR HYDROGEN CARBONATE)
 L20 143 S AMMONIUM HYDROGENCARBONATE
 L21 200 S (DIAMMONIUM OR DI AMMONIUM) () CARBONATE
 L22 9 S AMBIC
 L23 12765 S L18-L22
 L24 14 S L17 AND L23
 L25 7333 S L2,L3,L17
 L26 13140 S L23,L5
 L27 15 S L25 AND L26
 L28 15 S L24,L27
 L29 0 S L28 AND TENSIOACT?
 L30 1 S US20040102323/PN OR (US2003-714870# OR AR2002-104441)/AP,PRN
 E VIGIL J/AU
 L31 5 S E3,E13
 E GUSTAVO/AU
 L32 1 S E3
 E RUIZ M/AU
 L33 124 S E3,E29
 E RUIZ MARTHA/AU
 L34 4 S E3,E5
 E DEL CARMEN/AU
 L35 5 S E118,E123
 L36 1 S E168
 L37 4 S E189-E191
 E DELCARMEN/AU
 E CARMEN/AU
 L38 1 S E86
 L39 2 S E109
 E ANACABE/AU
 L40 1 S E4
 E OMAR/AU
 L41 41 S E3,E4
 E OMAR AN/AU
 L42 2 S E29
 E DANTE/AU
 E ATANOR/PA,CS
 L43 13 S E3-E15
 L44 2 S L30-L43 AND L25
 SEL RN

FILE 'REGISTRY' ENTERED AT 10:34:10 ON 31 OCT 2005

L45 25 S E1-E25
 L46 4 S L45 AND L1-L3
 L47 5 S L45 AND P/ELS
 L48 1 S L47 NOT L46
 L49 5 S L46-L48
 L50 20 S L45 NOT L49
 L51 0 S L50 AND L4-L10
 L52 7 S 504-75-6 OR 9005-53-2 OR 106392-12-5 OR 50852-11-4 OR 1330-69
 L53 11 S 75-56-9/CRN AND 75-21-8/CRN AND 2/NC NOT IDS/CI
 L54 8 S L53 NOT (P OR N)/ELS
 E C19H32O3S/MF

L55 124 S E3 AND 46.150.18/RID AND 1/NR
L56 8 S L55 AND TRIDECYL?
L57 7 S L56 AND BENZENESULFONIC
E C18H29O3S/MF
L58 19 S E3 AND 46.150.18/RID AND 1/NR
L59 6 S L58 AND DODECYL?
E C18H30O3S/MF
L60 183 S E3 AND 46.150.18/RID AND 1/NR
L61 20 S L60 AND DODECYL?
L62 17 S L61 AND BENZENESULFONIC
E C10H8O3S/MF
L63 11 S E3 AND C6-C6/ES AND 2/NR
L64 6 S L63 AND NAPHTHALENESULFONIC

FILE 'HCAPLUS' ENTERED AT 10:44:35 ON 31 OCT 2005

L65 65 S L52,L54,L57,L59,L62,L64 AND L25
L66 582 S (AMIDE? OR PHENOL? OR ALCOHOL? OR PHOSPHATE? OR LECITHIN? OR
L67 582 S (AMIDE? OR PHENOL? OR ALCOHOL? OR PHOSPHATE? OR LECITHIN? OR
L68 0 S L44 AND L28
L69 5 S L28 AND L65-L67
L70 1 S L44 AND L65-L67

FILE 'REGISTRY' ENTERED AT 10:49:01 ON 31 OCT 2005

L71 6 S 577-11-7 OR 9004-99-3 OR 50-70-4 OR 50-99-7 OR 25322-68-3 OR

FILE 'HCAPLUS' ENTERED AT 10:50:09 ON 31 OCT 2005

L72 117 S L71 AND L25
L73 1 S L28 AND L72
L74 1 S L44 AND L72
L75 17 S L28,L44,L69,L70,L73,L74
L76 17 S L75 AND L11-L44,L65-L70,L72-L75
L77 16 S L76 AND ?AMMON?
L78 7 S L76 AND (NH3? OR NH4?)
L79 17 S L77,L78
SEL HIT RN

FILE 'REGISTRY' ENTERED AT 10:52:52 ON 31 OCT 2005

L80 36 S E1-E36
L81 16 S L80 AND L1-L3
L82 4 S L80 AND L4-L5
L83 16 S L80 NOT L81,L82

FILE 'HCAPLUS' ENTERED AT 10:55:44 ON 31 OCT 2005

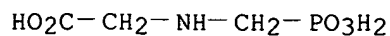
FILE 'REGISTRY' ENTERED AT 10:55:58 ON 31 OCT 2005

=> d ide can tot l81

L81 ANSWER 1 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN
RN 128126-29-4 REGISTRY
ED Entered STN: 13 Jul 1990
CN Glycine, N-(phosphonomethyl)-, compd. with morpholine (9CI) (CA INDEX
NAME)
OTHER CA INDEX NAMES:
CN Morpholine, compd. with N-(phosphonomethyl)glycine (9CI)
MF C4 H9 N O . x C3 H8 N O5 P
SR CA
LC STN Files: CA, CAPLUS

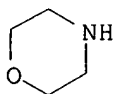
CM 1

CRN 1071-83-6
CMF C3 H8 N O5 P



CM 2

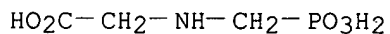
CRN 110-91-8
CMF C4 H9 N O



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 113:36393

L81 ANSWER 2 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN
RN **128126-28-3** REGISTRY
ED Entered STN: 13 Jul 1990
CN Glycine, N-(phosphonomethyl)-, potassium sodium salt (9CI) (CA INDEX NAME)
MF C3 H8 N O5 P . x K . x Na
SR CA
LC STN Files: CA, CAPLUS
CRN (1071-83-6)



● x K

● x Na

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

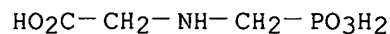
REFERENCE 1: 113:36393

L81 ANSWER 3 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN
RN **128126-27-2** REGISTRY
ED Entered STN: 13 Jul 1990
CN Glycine, N-(phosphonomethyl)-, compd. with guanidine (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:

CN Guanidine, compd. with N-(phosphonomethyl)glycine (9CI)
MF C3 H8 N O5 P . x C H5 N3
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

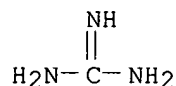
CM 1

CRN 1071-83-6
CMF C3 H8 N O5 P



CM 2

CRN 113-00-8
CMF C H5 N3

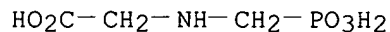


2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 114:159150

REFERENCE 2: 113:36393

L81 ANSWER 4 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN
RN **128126-26-1** REGISTRY
ED Entered STN: 13 Jul 1990
CN Glycine, N-(phosphonomethyl)-, lithium salt (9CI) (CA INDEX NAME)
MF C3 H8 N O5 P . x Li
SR CA
LC STN Files: CA, CAPLUS
CRN (1071-83-6)



●x Li

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 113:36393

L81 ANSWER 5 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN
RN **114370-14-8** REGISTRY
ED Entered STN: 14 May 1988
CN Glycine, N-(phosphonomethyl)-, ammonium salt (9CI) (CA INDEX NAME)
OTHER NAMES:

CN Glyphosate ammonium salt
MF C3 H8 N O5 P . x H3 N
CI COM
SR CA
LC STN Files: CA, CAPLUS, CHEMLIST, TOXCENTER, USPAT2, USPATFULL
CRN (1071-83-6)

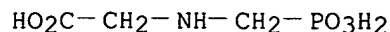
HO₂C-CH₂-NH-CH₂-PO₃H₂

● x NH₃

29 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
30 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:248511
REFERENCE 2: 143:243454
REFERENCE 3: 143:231760
REFERENCE 4: 142:254568
REFERENCE 5: 140:230951
REFERENCE 6: 138:34679
REFERENCE 7: 137:16823
REFERENCE 8: 137:1943
REFERENCE 9: 136:258726
REFERENCE 10: 135:88623

L81 ANSWER 6 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN
RN 102413-71-8 REGISTRY
ED Entered STN: 31 May 1986
CN Glycine, N-(phosphonomethyl)-, sodium salt (9CI) (CA INDEX NAME)
OTHER NAMES:
CN N-(Phosphonomethyl)glycine sodium salt
CN Phomeglin NV
MF C3 H8 N O5 P . x Na
CI COM
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
CRN (1071-83-6)

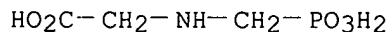


●x Na

39 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
39 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:2625
REFERENCE 2: 142:96256
REFERENCE 3: 140:298908
REFERENCE 4: 140:230951
REFERENCE 5: 140:159049
REFERENCE 6: 139:392480
REFERENCE 7: 139:376651
REFERENCE 8: 138:380839
REFERENCE 9: 138:350016
REFERENCE 10: 138:1333

L81 ANSWER 7 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN
RN 70901-12-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Glycine, N-(phosphonomethyl)-, potassium salt (9CI) (CA INDEX NAME)
OTHER NAMES:
CN N-(Phosphonomethyl)glycine potassium salt
CN Potassium glyphosate
MF C3 H8 N O5 P . x K
CI COM
LC STN Files: AGRICOLA, BIOSIS, CA, CAPLUS, CASREACT, IFICDB, IFIPAT,
IFIUDB, TOXCENTER, USPAT2, USPATFULL
CRN (1071-83-6)



●x K

52 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
52 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:247026
REFERENCE 2: 143:25318

REFERENCE 3: 143:21399
REFERENCE 4: 143:2625
REFERENCE 5: 142:280315
REFERENCE 6: 140:298908
REFERENCE 7: 140:230951
REFERENCE 8: 140:230950
REFERENCE 9: 140:159049
REFERENCE 10: 139:376651

L81 ANSWER 8 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN
RN 70393-85-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Glycine, N-(phosphonomethyl)-, sodium salt (2:3) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Glyphosate sesquisodium salt
CN MON 8000
CN Monsanto 8000
CN Polado
DR 68822-12-8
MF C3 H8 N O5 P . 3/2 Na
LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CABA, CAPLUS,
CBNB, CHEMLIST, HSDB*, IFICDB, IFIPAT, IFIUDB, RTECS*, TOXCENTER,
USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (1071-83-6)

$\text{HO}_2\text{C}-\text{CH}_2-\text{NH}-\text{CH}_2-\text{PO}_3\text{H}_2$

● 3/2 Na

21 REFERENCES IN FILE CA (1907 TO DATE)
21 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:254568
REFERENCE 2: 121:248648
REFERENCE 3: 118:18019
REFERENCE 4: 112:50544
REFERENCE 5: 111:52383
REFERENCE 6: 108:89393
REFERENCE 7: 105:204660

REFERENCE 8: 104:47080

REFERENCE 9: 102:74044

REFERENCE 10: 98:102593

L81 ANSWER 9 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN 69254-40-6 REGISTRY

ED Entered STN: 16 Nov 1984

CN Glycine, N-(phosphonomethyl)-, diammonium salt (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Diammonium glyphosate

CN Glyphosate diammonium salt

CN N-Phosphomethylglycine diammonium salt

CN Touchdown iQ

MF C3 H8 N O5 P . 2 H3 N

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL

CRN (1071-83-6)

$\text{HO}_2\text{C}-\text{CH}_2-\text{NH}-\text{CH}_2-\text{PO}_3\text{H}_2$

● 2 NH₃

24 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

24 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:224138

REFERENCE 2: 142:477398

REFERENCE 3: 142:254568

REFERENCE 4: 141:238196

REFERENCE 5: 141:238189

REFERENCE 6: 141:2855

REFERENCE 7: 140:230950

REFERENCE 8: 140:159049

REFERENCE 9: 140:37380

REFERENCE 10: 139:241614

L81 ANSWER 10 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN 58527-15-4 REGISTRY

ED Entered STN: 16 Nov 1984

CN Glycine, N-(phosphonomethyl)-, compd. with 2-propanamine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propanamine, compd. with N-(phosphonomethyl)glycine (9CI)

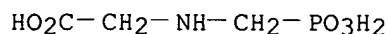
jan delaval - 31 october 2005

OTHER NAMES:

CN Phomeglin 41V
MF C3 H9 N . x C3 H8 N O5 P
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

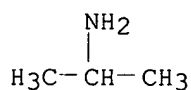
CM 1

CRN 1071-83-6
CMF C3 H8 N O5 P



CM 2

CRN 75-31-0
CMF C3 H9 N



11 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:169335
REFERENCE 2: 126:48621
REFERENCE 3: 115:24370
REFERENCE 4: 115:3065
REFERENCE 5: 114:159150
REFERENCE 6: 107:231448
REFERENCE 7: 106:80405
REFERENCE 8: 97:209984
REFERENCE 9: 91:103741
REFERENCE 10: 90:98451

L81 ANSWER 11 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN 40465-82-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN Glycine, N-(phosphonomethyl)-, compd. with ethanamine (1:1) (9CI) (CA
INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethanamine, compd. with N-(phosphonomethyl)glycine (1:1) (9CI)

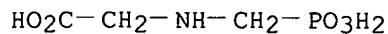
OTHER NAMES:

CN Glyphosate monoethylamine salt

CN N-(Phosphonomethyl)glycine mono(ethylamine) salt
CN N-(Phosphonomethyl)glycine mono(ethylammonium) salt
MF C3 H8 N O5 P . C2 H7 N
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

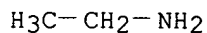
CM 1

CRN 1071-83-6
CMF C3 H8 N O5 P



CM 2

CRN 75-04-7
CMF C2 H7 N



14 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:477436

REFERENCE 2: 138:380839

REFERENCE 3: 138:350016

REFERENCE 4: 138:51349

REFERENCE 5: 138:1333

REFERENCE 6: 137:197001

REFERENCE 7: 136:258726

REFERENCE 8: 136:258721

REFERENCE 9: 136:1862

REFERENCE 10: 123:199404

L81 ANSWER 12 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN **40465-66-5** REGISTRY

ED Entered STN: 16 Nov 1984

CN Glycine, N-(phosphonomethyl)-, monoammonium salt (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Ammonium glyphosate

CN Glyphosate monoammonium salt

CN MON 14420

CN MON 8750

CN Monoammonium glyphosate

CN N-Phosphonomethylglycine amine salt

CN N-Phosphonomethylglycine ammonium salt

CN N-Phosphonomethylglycine monoammonium salt
CN Roundup Hi-Load
CN Roundup PRODry
MF C3 H8 N O5 P . H3 N
CI COM
LC STN Files: AGRICOLA, BIOBUSINESS, CA, CAPLUS, CASREACT, IFICDB, IFIPAT,
IFIUDB, TOXCENTER, USPAT2, USPATFULL
CRN (1071-83-6)

HO₂C-CH₂-NH-CH₂-PO₃H₂

● NH₃

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

103 REFERENCES IN FILE CA (1907 TO DATE)
12 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
103 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:247026

REFERENCE 2: 143:224138

REFERENCE 3: 143:25318

REFERENCE 4: 143:2625

REFERENCE 5: 142:477436

REFERENCE 6: 142:458510

REFERENCE 7: 142:425359

REFERENCE 8: 142:411483

REFERENCE 9: 142:254568

REFERENCE 10: 142:34057

L81 ANSWER 13 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN 39600-42-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN Glycine, N-(phosphonomethyl)-, monopotassium salt (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Glyphosate monopotassium salt

CN MON 78270

CN N-Phosphonomethylglycine monopotassium salt

CN Roundup Weathermax

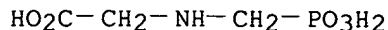
CN Weathermax

MF C3 H8 N O5 P . K

CI COM

LC STN Files: CA, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB, TOXCENTER,
USPAT2, USPATFULL

CRN (1071-83-6)



● K

24 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
24 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:320594

REFERENCE 2: 143:224138

REFERENCE 3: 143:207574

REFERENCE 4: 142:405953

REFERENCE 5: 142:70304

REFERENCE 6: 142:70116

REFERENCE 7: 142:18700

REFERENCE 8: 141:308965

REFERENCE 9: 140:401765

REFERENCE 10: 140:248666

L81 ANSWER 14 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN 38641-94-0 REGISTRY

ED Entered STN: 16 Nov 1984

CN Glycine, N-(phosphonomethyl)-, compd. with 2-propanamine (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propanamine, compd. with N-(phosphonomethyl)glycine (1:1) (9CI)

OTHER NAMES:

CN Amega

CN Atut

CN Azural AT

CN Buggy

CN Cargly

CN Cosmic

CN Cosmic (herbicide)

CN Fosulen

CN Glifogan

CN Glyfos AU

CN Glyfos BIO

CN Glyphogan

CN Glyphosate isopropylamine

CN Glyphosate isopropylamine salt

CN Glyphosate mono(isopropylamine) salt

CN MON 0139

CN MON 39

CN N-(Phosphonomethyl)glycine isopropylamine salt

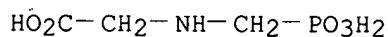
CN N-(Phosphonomethyl)glycine isopropylammonium salt

jan delaval - 31 october 2005

CN N-(Phosphonomethyl)glycine monoisopropylamine salt
 CN Nitosorg
 CN Otaman
 CN Rodeo
 CN Ron-do
 CN Roundup
 CN Roundup 3 plus
 CN Roundup Biactive
 CN Roundup Biovert
 CN Roundup Custom
 CN Roundup High Load
 CN Roundup Original
 CN Roundup Transorb
 CN Roundup Ultra
 CN Roundup UltraMax
 CN Utal
 CN Utal (herbicide)
 CN Vision
 CN Vision (herbicide)
 CN Zapp
 DR 626231-43-4, 96638-41-4, 96639-11-1, 106805-61-2, 39226-77-2, 258263-91-1
 MF C3 H9 N . C3 H8 N O5 P
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST,
 CIN, CSCHEM, CSNB, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MRCK*,
 MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, TOXCENTER, ULIDAT, USPAT2,
 USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)

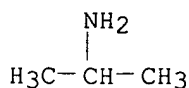
CM 1

 CRN 1071-83-6
 CMF C3 H8 N O5 P



CM 2

 CRN 75-31-0
 CMF C3 H9 N



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

986 REFERENCES IN FILE CA (1907 TO DATE)
 48 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 988 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:341019
REFERENCE 2: 143:320594
REFERENCE 3: 143:320297
REFERENCE 4: 143:300744
REFERENCE 5: 143:300545
REFERENCE 6: 143:282818
REFERENCE 7: 143:281053
REFERENCE 8: 143:281040
REFERENCE 9: 143:281027
REFERENCE 10: 143:280959

L81 ANSWER 15 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN 34494-03-6 REGISTRY

ED Entered STN: 16 Nov 1984

CN Glycine, N-(phosphonomethyl)-, monosodium salt (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Glyphosate monosodium salt

CN MON 0459

CN N-Phosphonomethylglycine monosodium salt

CN N-Phosphonomethylglycine sodium salt

MF C3 H8 N O5 P . Na

CI COM

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMLIST, IFICDB, IFIPAT,
IFIUDB, RTECS*, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

CRN (1071-83-6)

$\text{HO}_2\text{C}-\text{CH}_2-\text{NH}-\text{CH}_2-\text{PO}_3\text{H}_2$

● Na

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

37 REFERENCES IN FILE CA (1907 TO DATE)

9 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

37 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:224138
REFERENCE 2: 142:477436
REFERENCE 3: 142:2119
REFERENCE 4: 141:345100
REFERENCE 5: 140:401765

jan delaval - 31 october 2005

REFERENCE 6: 139:96532
REFERENCE 7: 138:51349
REFERENCE 8: 136:397312
REFERENCE 9: 136:258721
REFERENCE 10: 136:1862

L81 ANSWER 16 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN
RN 1071-83-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Glycine, N-(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN (Carboxymethylamino)methylphosphonic acid
CN Accord
CN Carboxymethylaminomethanephosphinic acid
CN Folusen
CN Forsat
CN Glialka
CN Glialka 36
CN Gliz
CN Gliz 480CS
CN Glyfos
CN Glyphodin A
CN Glyphomax
CN Glyphosate
CN Glyphosate CT
CN Herbatop
CN Hockey
CN Kickdown
CN Lancer
CN MON 2139
CN MON 6000
CN N-Phosphomethylglycine
CN **N-Phosphonomethylglycine**
CN NSC 151063
CN Phorsat
CN Phosphonomethylglycine
CN Phosphonomethyliminoacetic acid
CN Rebel Garden
CN Roundup Max
FS 3D CONCORD
DR 37337-60-3, 75241-08-6, 42618-09-7
MF C3 H8 N O5 P
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSChem, CSNB, DDFU, DRUGU,
EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDb, IPA, MEDLINE, MRCK*,
MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SCISEARCH, SPECINFO, TOXCENTER,
ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

HO₂C-CH₂-NH-CH₂-PO₃H₂

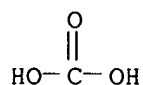
****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

5499 REFERENCES IN FILE CA (1907 TO DATE)
313 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5510 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 143:346297
REFERENCE 2: 143:343183
REFERENCE 3: 143:343182
REFERENCE 4: 143:341089
REFERENCE 5: 143:341035
REFERENCE 6: 143:341031
REFERENCE 7: 143:341030
REFERENCE 8: 143:340711
REFERENCE 9: 143:340407
REFERENCE 10: 143:330966

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L82 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN
RN **33113-08-5** REGISTRY
ED Entered STN: 16 Nov 1984
CN Carbonic acid, ammonium copper salt (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Ammonium copper carbonate
CN Copper ammonium carbonate
MF **C H2 O3 . x Cu . x H3 N**
CI COM
LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAPLUS, CHEMLIST, GMELIN*,
RTECS*, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(*Enter CHEMLIST File for up-to-date regulatory information)
CRN (463-79-6)



●x Cu(x)

●x NH₃

33 REFERENCES IN FILE CA (1907 TO DATE)
33 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:254568
REFERENCE 2: 142:96148
REFERENCE 3: 140:165664
REFERENCE 4: 138:139039
REFERENCE 5: 137:384339
REFERENCE 6: 135:319722
REFERENCE 7: 131:106582
REFERENCE 8: 128:131707
REFERENCE 9: 120:279496
REFERENCE 10: 115:24382

L82 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN

RN 22829-17-0 REGISTRY

ED Entered STN: 16 Nov 1984

CN Carbonic acid, ammonium zirconium salt (8CI, 9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ammonium zirconium carbonate (6CI)

OTHER NAMES:

CN Az Coat 5800MT

CN AZCote 5800m

CN Bacote 40

CN Cartabond ZA Liquid

CN Deoxylyte DY-B

CN HTI 5800M

CN Vamcoat 20

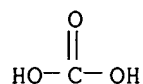
CN Zirconium ammonium carbonate

DR 12772-32-6, 371966-03-9

MF C H2 O3 . x H3 N . x Zr

CI COM

LC STN Files: AGRICOLA, BIOBUSINESS, CA, CAOLD, CAPLUS, CHEMLIST, CIN,
CSCHEM, IFICDB, IFIPAT, IFIADB, PIRA, PROMT, TOXCENTER, USPAT2,
USPATFULL
CRN (463-79-6)



●x NH₃

●x Zr(x)

323 REFERENCES IN FILE CA (1907 TO DATE)
 12 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 324 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 143:328009
 REFERENCE 2: 143:214861
 REFERENCE 3: 143:154999
 REFERENCE 4: 143:119159
 REFERENCE 5: 143:117057
 REFERENCE 6: 143:116511
 REFERENCE 7: 143:68385
 REFERENCE 8: 143:61495
 REFERENCE 9: 143:28196
 REFERENCE 10: 142:485355

L82 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN

RN **1066-33-7** REGISTRY

ED Entered STN: 16 Nov 1984

CN Carbonic acid, monoammonium salt (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Acid ammonium carbonate

CN AmBic

CN **Ammonium bicarbonate**

CN Ammonium bicarbonate ((NH₄)HCO₃)

CN Ammonium hydrogen carbonate

CN Monoammonium carbonate

DR 758-14-5, 114459-02-8

MF **C H2 O3 . H3 N**

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU,

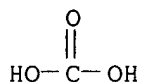
EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*,
MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER,
TULSA, ULIDAT, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

CRN (463-79-6)



● NH₃

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3886 REFERENCES IN FILE CA (1907 TO DATE)
20 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3889 REFERENCES IN FILE CAPLUS (1907 TO DATE)
29 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 143:357370

REFERENCE 2: 143:353311

REFERENCE 3: 143:352008

REFERENCE 4: 143:341964

REFERENCE 5: 143:330993

REFERENCE 6: 143:330371

REFERENCE 7: 143:327977

REFERENCE 8: 143:324887

REFERENCE 9: 143:317991

REFERENCE 10: 143:312082

L82 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN

RN 506-87-6 REGISTRY

ED Entered STN: 16 Nov 1984

CN Carbonic acid, diammonium salt (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Ammonium carbonate

CN Ammonium carbonate ((NH₄)₂CO₃)

CN Bis(ammonium) carbonate

CN Diammonium carbonate

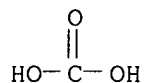
DR 6721-33-1, 40956-82-9

MF C H2 O3 . 2 H3 N

CI COM

jan delaval - 31 october 2005

LC STN Files: AGRICOLA, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO,
 CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX,
 CHEMLIST, CIN, CSCHEM, DETHERM*, DIOGENES, EMBASE, ENCOMPLIT,
 ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT,
 IFIUDB, IPA, MEDLINE, MSDS-OHS, PDLCOM*, PIRA, PROMT, PS, RTECS*,
 TOXCENTER, TULSA, USPAT2, USPATFULL, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 CRN (463-79-6)



● 2 NH₃

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5184 REFERENCES IN FILE CA (1907 TO DATE)
 47 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 5193 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 143:356253
 REFERENCE 2: 143:355020
 REFERENCE 3: 143:353893
 REFERENCE 4: 143:352008
 REFERENCE 5: 143:349511
 REFERENCE 6: 143:347126
 REFERENCE 7: 143:338291
 REFERENCE 8: 143:330314
 REFERENCE 9: 143:328156
 REFERENCE 10: 143:325377

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L83 ANSWER 1 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 691397-13-4 REGISTRY
 ED Entered STN: 10 Jun 2004
 CN Oxirane, methyl-, polymer with oxirane, triblock (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN Acclaim Polyol PPO 2220N
 CN Adeka Pluronic F 68
 CN Adeka Pluronic L 64

CN Antarox 17R4
CN Antarox SC 138
CN Arlatone F 127G
CN CRL 1005
CN Ethox L 122
CN Ethylene oxide-propylene oxide triblock copolymer
CN L 121
CN L 123
CN Lutrol F 87
CN Lutrol FC 127
CN Meroxapol 108
CN Meroxapol 174
CN Meroxapol 252
CN Meroxapol 258
CN Newpol PE 61
CN Novanik 600/20
CN Novanik 600/40
CN Novanik 600/50
CN Oxirane-oxypropylene triblock copolymer
CN PE 61
CN Pluriol PE
CN Pluriol PE 10100
CN Pluriol PE 10500
CN Pluriol PE 1600
CN Pluriol PE 3100
CN Pluriol PE 6100
CN Pluriol PE 6400
CN Pluriol PE 6810
CN Pluriol PE 9200
CN Pluriol PE 9400
CN Pluronic
CN Pluronic 10100
CN Pluronic 104
CN Pluronic 108
CN Pluronic 10R5
CN Pluronic 10R8
CN Pluronic 121
CN Pluronic 122
CN Pluronic 123
CN Pluronic 124
CN Pluronic 127
CN Pluronic 150R
CN Pluronic 150R1
CN Pluronic 1720
CN Pluronic 17R1
CN Pluronic 17R2
CN Pluronic 17R4

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

MF (C3 H6 O . C2 H4 O)x

CI PMS, COM

PCT Polyether, Polyether formed

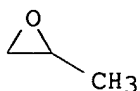
SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL

CM 1

CRN 75-56-9

CMF C3 H6 O



CM 2

CRN 75-21-8

CMF C2 H4 O



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1499 REFERENCES IN FILE CA (1907 TO DATE)
70 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1518 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:359177

REFERENCE 2: 143:356948

REFERENCE 3: 143:353351

REFERENCE 4: 143:353334

REFERENCE 5: 143:353045

REFERENCE 6: 143:353038

REFERENCE 7: 143:352952

REFERENCE 8: 143:351285

REFERENCE 9: 143:351250

REFERENCE 10: 143:349849

L83 ANSWER 2 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN 690635-07-5 REGISTRY

ED Entered STN: 08 Jun 2004

CN Atplus UCL 1007 (9CI) (CA INDEX NAME)

ENTE A surfactant (Uniquema)

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:401765

L83 ANSWER 3 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN
RN 113032-51-2 REGISTRY
ED Entered STN: 27 Feb 1988
CN Benzenesulfonic acid, tridecyl-, ion(1-) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Tridecylbenzenesulfonate
CN Tridecylbenzenesulfonate anion
MF C19 H31 O3 S
CI IDS, COM
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



D1- SO₃⁻

D1- (CH₂)₁₂-Me

9 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:412875
REFERENCE 2: 141:412874
REFERENCE 3: 140:401765
REFERENCE 4: 138:371052
REFERENCE 5: 138:174788
REFERENCE 6: 136:236498
REFERENCE 7: 134:209762
REFERENCE 8: 127:177968
REFERENCE 9: 121:270784

L83 ANSWER 4 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN
RN 106392-12-5 REGISTRY
ED Entered STN: 31 Jan 1987
CN Oxirane, methyl-, polymer with oxirane, block (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Adeka 25R1
CN Adeka 25R2
CN Adeka L 61
CN Antarox 17R2
CN Antarox 25R2
CN Antarox B 25
CN Antarox F 108
CN Antarox F 68

CN Antarox F 88
CN Antarox F 88FL
CN Antarox L 61
CN Antarox L 64
CN Antarox L 72
CN Antarox P 104
CN Antarox P 84
CN Arco Polyol R 2633
CN Arcol E 351
CN B 053
CN BASF-L 101
CN Block polyethylene-polypropylene glycol
CN Block polyoxyethylene-polyoxypropylene
CN Breox BL 19-10
CN Caradol ED 56-07
CN Cirrasol ALN-WS
CN Conion AEP 1220
CN Crisvon Assistor SD 14
CN CRL 1029
CN CRL 1190
CN CRL 1605
CN CRL 8131
CN CRL 8142
CN D 500
CN D 500 (polyglycol)
CN Daltocel F 460
CN DC 100
CN Dehypon KE 3557
CN Detalan
CN DO 97
CN Dowfax 30C05
CN ED 56
CN Empilan P 7068
CN Emulgen PP 230
CN Emulsogen V 1816
CN EP 3028
CN Epan 450
CN Epan 485
CN Epan 680
CN Epan 710
CN Epan 740
CN Epan 750

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

DR 11104-97-5, 163516-02-7, 124057-62-1, 121089-00-7, 134092-42-5,
96639-37-1, 96958-14-4, 99040-06-9, 106138-19-6, 113441-83-1, 115742-90-0,
108688-61-5, 108688-62-6, 37349-41-0, 70226-19-6, 72231-62-0, 77108-15-7,
80456-04-8, 144638-32-4, 83589-65-5, 86904-45-2, 106899-85-8, 107498-07-7,
108340-62-1, 178463-44-0, 188815-93-2, 194165-56-5, 197179-49-0,
211389-05-8, 238075-26-8, 351002-57-8, 355134-17-7, 406160-61-0,
441053-13-0, 441053-14-1

MF (C3 H6 O . C2 H4 O)x

CI PMS, COM

PCT Polyether, Polyether formed

SR CA

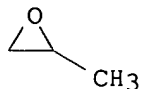
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS,
BIOSIS, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST,
CIN, CSCHM, DDFU, DIOGENES, DRUGU, IMSDRUGNEWS, IMSRESEARCH, IPA,
MEDLINE, MRCK*, PDLCOM*, PHAR, PIRA, PROMT, RTECS*, TOXCENTER, USAN,
USPAT2, USPATFULL

(*File contains numerically searchable property data)

CM 1

CRN 75-56-9

CMF C3 H6 O



CM 2

CRN 75-21-8

CMF C2 H4 O



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9489 REFERENCES IN FILE CA (1907 TO DATE)

877 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

9501 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:359177

REFERENCE 2: 143:356902

REFERENCE 3: 143:353402

REFERENCE 4: 143:353390

REFERENCE 5: 143:353351

REFERENCE 6: 143:353334

REFERENCE 7: 143:353326

REFERENCE 8: 143:353085

REFERENCE 9: 143:353048

REFERENCE 10: 143:351290

L83 ANSWER 5 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN 50852-11-4 REGISTRY

ED Entered STN: 16 Nov 1984

CN Naphthalenesulfonic acid, ion(1-) (9CI) (CA INDEX NAME)

OTHER NAMES:

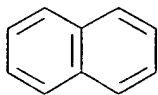
CN Naphthalenesulfonate

CN Naphthalenesulfonate anion

MF C10 H7 O3 S

CI IDS, COM

LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CAPLUS,
TOXCENTER, TULSA, USPAT2, USPATFULL



D1-SO₃⁻

205 REFERENCES IN FILE CA (1907 TO DATE)
46 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
206 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:351617
REFERENCE 2: 143:310339
REFERENCE 3: 143:269337
REFERENCE 4: 143:269336
REFERENCE 5: 143:269335
REFERENCE 6: 143:234088
REFERENCE 7: 143:157707
REFERENCE 8: 143:37704
REFERENCE 9: 142:384068
REFERENCE 10: 142:321280

L83 ANSWER 6 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN **27176-87-0** REGISTRY

ED Entered STN: 16 Nov 1984

CN Benzenesulfonic acid, dodecyl- (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN ABS 100
CN Ambicat LE 4476
CN Bio-Soft S 100
CN Bio-Soft S 101
CN Biosoft S 126
CN Calsoft LAS 99
CN Cat 6000
CN Catalyst 600
CN Catalyst 6000
CN Cycat 600
CN DBS
CN Dodecylbenzenesulfonic acid
CN Dodecylbenzenesulphonic acid
CN E 7256
CN Elfan WA Sulphonic Acid
CN LAS 99
CN Laurylbenzenesulfonic acid

jan delaval - 31 october 2005

CN Lipon LH 500
CN Maranil DBS
CN Marlon AS 3
CN n-Dodecylbenzenesulfonic acid
CN Nacconol 98SA
CN Nacure 5074
CN Nacure 5076
CN Nansa 1042
CN Nansa 1042P
CN Nansa SSA
CN Neopelex FS
CN Neopelex GS
CN P 3 Vetralat
CN Pelex F 25
CN Polystep A 13
CN Richonic Acid B
CN S 100
CN Soft Osen 5S
CN Sulfosoft
CN Sulframin 1298
CN Sulframin Acid 1298
CN Taycacure AC 430
CN Taycapower L 122
CN Ufacid K
CN Witco 1298
CN Witco 1298 Acid Soft
CN Witco 1298 Soft Acid
AR 1886-81-3
DR 1323-12-2, 175069-51-9, 124743-21-1, 54824-36-1, 106602-89-5, 61400-71-3,
37321-08-7, 111839-63-5, 147625-74-9, 27157-97-7, 39355-45-8, 210106-05-1,
220880-99-9, 313478-89-6
MF C18 H30 O3 S
CI IDS, COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CABA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSChem,
CSNB, DDFU, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE,
MSDS-OHS, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, ULIDAT, USPAT2,
USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



D1-SO₃H

Me-(CH₂)₁₁-D1

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3498 REFERENCES IN FILE CA (1907 TO DATE)

jan delaval - 31 october 2005

370 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3501 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:359035

REFERENCE 2: 143:349055

REFERENCE 3: 143:348081

REFERENCE 4: 143:347942

REFERENCE 5: 143:347600

REFERENCE 6: 143:338655

REFERENCE 7: 143:337686

REFERENCE 8: 143:332043

REFERENCE 9: 143:332042

REFERENCE 10: 143:332041

L83 ANSWER 7 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN **25322-68-3** REGISTRY

ED Entered STN: 16 Nov 1984

CN Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN α,ω -Hydroxypoly(ethylene oxide)

CN α -Hydro- ω -hydroxypoly(oxy-1,2-ethanediyl)

CN α -Hydro- ω -hydroxypoly(oxyethylene)

CN 1,2-Ethanediol, homopolymer

CN 16600

CN 1660S

CN 400DAB8

CN Alkox

CN Alkox E 100

CN Alkox E 130

CN Alkox E 160

CN Alkox E 240

CN Alkox E 30

CN Alkox E 30G

CN Alkox E 45

CN Alkox E 60

CN Alkox E 75

CN Alkox R 100

CN Alkox R 1000

CN Alkox R 15

CN Alkox R 150

CN Alkox R 400

CN Alkox SR

CN Alkox SW

CN Antarox E 4000

CN Aquacide III

CN Aquaffin

CN Badimol

CN BDH 301

CN Bradsyn PEG

CN Breox 2000

CN Breox 20M
 CN Breox 4000
 CN Breox 550
 CN Breox PEG 300
 CN CAFO 154
 CN Carbowax
 CN Carbowax 100
 CN Carbowax 1000
 CN Carbowax 1350
 CN Carbowax 14000
 CN Carbowax 1450
 CN Carbowax 1500
 CN Carbowax 1540
 CN Carbowax 20
 CN Carbowax 200
 CN Carbowax 20000
 CN Carbowax 25000
 CN Carbowax 300
 CN Carbowax 3350

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

AR 9002-90-8
 DR 615575-04-7, 12676-74-3, 12770-93-3, 9081-95-2, 9085-02-3, 9085-03-4,
 174460-08-3, 174460-09-4, 54510-95-1, 125223-68-9, 54847-64-2, 59763-40-5,
 64441-68-5, 64640-28-4, 133573-31-6, 25104-58-9, 25609-81-8, 134919-43-0,
 101677-86-5, 99264-61-6, 106186-24-7, 112895-21-3, 114323-93-2,
 50809-04-6, 50809-59-1, 119219-06-6, 60894-12-4, 61840-14-0, 37361-15-2,
 112384-37-9, 67411-64-7, 70926-57-7, 75285-02-8, 75285-03-9, 77986-38-0,
 150872-82-5, 154394-38-4, 79964-26-4, 80341-53-3, 85399-22-0, 85945-29-5,
 90597-70-9, 88077-80-9, 88747-22-2, 34802-42-1, 107502-63-6, 107529-96-4,
 116549-90-7, 156948-19-5, 169046-53-1, 188364-77-4, 188924-03-0,
 189154-62-9, 191743-71-2, 196696-84-1, 201163-43-1, 206357-86-0,
 221638-71-7, 225502-44-3, 270910-26-4, 307928-07-0, 356055-70-4,
 391229-98-4

MF (C2 H4 O)_n H2 O

CI PMS, COM

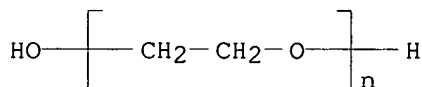
PCT Polyether

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DDFU, DETHERM*,
 DIOGENES, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,
 HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC,
 PDLCOM*, PIRA, PROMT, RTECS*, SCISEARCH, SPECINFO, TOXCENTER, TULSA,
 ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

85306 REFERENCES IN FILE CA (1907 TO DATE)

22888 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

85422 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:359215
REFERENCE 2: 143:359136
REFERENCE 3: 143:358834
REFERENCE 4: 143:358446
REFERENCE 5: 143:358282
REFERENCE 6: 143:356695
REFERENCE 7: 143:356691
REFERENCE 8: 143:356636
REFERENCE 9: 143:356257
REFERENCE 10: 143:355505

L83 ANSWER 8 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN 9005-53-2 REGISTRY

ED Entered STN: 16 Nov 1984

CN Lignin (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Acid-precipitable polymeric lignin

CN APPL

CN Ball-milled lignin

CN Biolignin

CN Cellulase lignin

CN DHP lignin

CN Methyllignin

CN Native lignin

CN Pepper lignin

CN Protolignin

CN Reax 3l

CN Vaniol NDP

DR 8072-92-2, 9062-69-5, 56690-27-8, 37222-03-0, 37226-40-7

MF Unspecified

CI PMS, COM, MAN

PCT Manual registration, Polyother, Polyother only

LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

25313 REFERENCES IN FILE CA (1907 TO DATE)

1645 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

25327 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:352323

REFERENCE 2: 143:352247
REFERENCE 3: 143:352221
REFERENCE 4: 143:352177
REFERENCE 5: 143:352106
REFERENCE 6: 143:352077
REFERENCE 7: 143:351656
REFERENCE 8: 143:351544
REFERENCE 9: 143:350013
REFERENCE 10: 143:348905

L83 ANSWER 9 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN 9004-99-3 REGISTRY

ED Entered STN: 16 Nov 1984

CN Poly(oxy-1,2-ethanediyl), α -(1-oxooctadecyl)- ω -hydroxy- (9CI)
(CA INDEX NAME)

OTHER NAMES:

CN 40S
CN 40S (polyether)
CN 60S
CN 60S (polyether)
CN Akyporox S 100
CN Alkasurf S 65-8
CN Arosurf 1855E40
CN Atlox 5000
CN Capcure 65
CN Carbowax 1000 monostearate
CN Carbowax 1500 monostearate
CN Carbowax 4000 monostearate
CN Cerasynt 660
CN Cerasynt 840
CN Cerasynt M
CN Cerasynt MN
CN Chemax E 1750MS
CN Chemax E 400MS
CN Cithrol 10MS
CN Cithrol 4MS
CN Cithrol PS
CN Clearate G
CN Cremofor 410R
CN Cremophor 410R
CN Cremophor S 9
CN Crill 20
CN Crill 21
CN Crill 22
CN Crill 23
CN Crodet S
CN Crodet S 100
CN Crodet S 24
CN Emalex 605
CN Emalex 6300M-ST
CN Emalex 804

CN Emanon 3113
 CN Emanon 3115
 CN Emanon 3119
 CN Emanon 3170
 CN Emanon 3199
 CN Emcol H 35A
 CN Emerest 2640
 CN Emerest 2662
 CN Emerest 2715
 CN Emery 15393
 CN Empilan CP 100
 CN Empilan CQ 100
 CN Ethofat 60/15
 CN Ethofat 60/20
 CN Ethofat 60/25

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY

DR 8035-96-9, 8050-55-3, 9009-90-9, 11107-94-1, 11108-48-8, 53228-13-0,
 53335-42-5, 58375-39-6, 123543-87-3, 121340-91-8, 63654-37-5, 35885-17-7,
 72993-78-3, 74870-86-3, 86473-52-1, 39404-30-3, 42610-76-4, 52504-21-9,
 52504-22-0, 52504-23-1

MF (C2 H4 O)n C18 H36 O2

CI PMS, COM

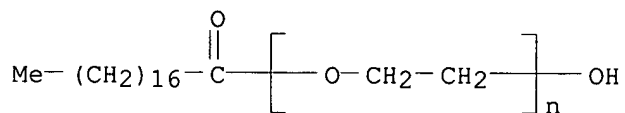
PCT Polyether

LC STN Files: AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT,
 CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, HSDB*, IFICDB,
 IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NIOSHTIC, PROMT, RTECS*,
 TOXCENTER, USAN, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3332 REFERENCES IN FILE CA (1907 TO DATE)

66 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

3341 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:353429

REFERENCE 2: 143:353326

REFERENCE 3: 143:352884

REFERENCE 4: 143:352875

REFERENCE 5: 143:348806

REFERENCE 6: 143:336372

REFERENCE 7: 143:332615

REFERENCE 8: 143:327889

REFERENCE 9: 143:312084

REFERENCE 10: 143:311452

L83 ANSWER 10 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN 9003-11-6 REGISTRY

ED Entered STN: 16 Nov 1984

CN Oxirane, methyl-, polymer with oxirane (9CI) (CA INDEX NAME)

OTHER NAMES:

CN α -Hydro- ω -hydroxy-poly(oxyethylene)-poly(oxypropylene)

CN 1,2-Propanediol polymer with ethylene oxide

CN 333E

CN 50MB-26X

CN 75H380000

CN 75H90000

CN 75HB1440

CN Acclaim 2220N

CN Actcol ED 56

CN Actcol MF 12

CN Actcol MF 18

CN Actinol P 3035

CN Adeka Carpol MH 150

CN Adeka Carpol MH 500

CN Adeka Carpol PH 2000

CN Adeka CM 294

CN Adeka L 31

CN Adeka PR 2008

CN Adeka PR 3007

CN Adekanol NP 1200

CN Alkan 416

CN Atlas SF 131

CN Balab 615

CN Berol 370

CN Berol 374

CN Berol TVM 370

CN Bloatguard

CN Breox 50A1000

CN Breox 75W270

CN Breox PAG 50A1000

CN BSP 5000

CN Carpol 2040

CN Carpol 2050

CN CE

CN CF 0802

CN CP 1000

CN CP 1000 (polyoxyalkylene)

CN CP 1000L

CN CP 2000

CN CP 2000 (glycol)

CN CP 2000L

CN D 10

CN DE 1

CN DE 1 (demulsifier)

CN Desmophen 7100

CN Desmophen L 2830

CN Dezemulsionat E 96

CN Disfoam CC 222

CN Dissolvant 4411

CN ED 36

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

AR 53637-25-5

DR 452069-47-5, 570369-25-4, 12676-40-3, 12772-49-5, 9003-12-7, 9009-02-3,
9009-03-4, 9009-04-5, 9009-05-6, 9009-06-7, 9010-49-5, 9010-97-3,
9015-66-1, 9050-44-6, 9061-69-2, 9067-43-0, 167267-50-7, 168018-54-0,
163032-64-2, 163063-49-8, 162627-00-1, 170779-86-9, 172306-19-3,
53637-72-2, 57971-91-2, 58968-65-3, 125523-27-5, 56730-46-2, 57219-38-2,
57571-70-7, 124057-63-2, 59494-33-6, 59794-22-8, 60328-61-2, 64940-96-1,
66746-25-6, 106717-66-2, 50643-24-8, 51312-31-3, 51569-27-8, 60976-75-2,
37211-19-1, 37211-20-4, 37211-21-5, 37211-22-6, 37211-23-7, 37211-24-8,
37221-18-4, 37265-39-7, 37307-38-3, 37331-16-1, 37331-17-2, 37341-81-4,
70213-25-1, 72319-37-0, 73158-62-0, 70644-95-0, 71343-56-1, 77448-18-1,
77752-09-1, 76050-76-5, 86249-84-5, 86304-35-0, 81180-56-5, 84931-05-5,
87912-55-8, 91858-59-2, 30600-73-8, 39277-80-0, 39316-56-8, 39316-57-9,
39364-13-1, 39387-54-7, 186673-37-0, 208342-25-0, 231627-80-8,
232598-91-3, 250780-00-8, 254903-86-1, 291775-89-8, 374624-82-5

MF (C3 H6 O . C2 H4 O)x

CI PMS, COM

PCT Polyether, Polyether formed

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM,
DDFU, DIOGENES, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT,
ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*,
MSDS-OHS, NIOSHTIC, PHAR, PIRA, PROMT, PROUSDDR, RTECS*, TOXCENTER,
USAN, USPAT2, USPATFULL

(*File contains numerically searchable property data)

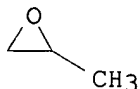
Other Sources: DSL**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

CRN 75-56-9

CMF C3 H6 O



CM 2

CRN 75-21-8

CMF C2 H4 O



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9501 REFERENCES IN FILE CA (1907 TO DATE)

3059 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

9513 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:356623
REFERENCE 2: 143:355061
REFERENCE 3: 143:353394
REFERENCE 4: 143:352837
REFERENCE 5: 143:349064
REFERENCE 6: 143:348806
REFERENCE 7: 143:348643
REFERENCE 8: 143:347991
REFERENCE 9: 143:347666
REFERENCE 10: 143:332654

L83 ANSWER 11 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN 1330-69-4 REGISTRY

ED Entered STN: 16 Nov 1984

CN Benzenesulfonic acid, dodecyl-, ion(1-) (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Dodecylbenzenesulfonate

CN Dodecylbenzenesulfonate anion

CN Dodecylbenzenesulfonate(1-)

CN n-Dodecylbenzenesulfonic acid ion(1-)

MF C18 H29 O3 S

CI IDS, COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, CA, CAPLUS, CHEMLIST, CSNB, PROMT, TOXCENTER, USPAT2, USPATFULL

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



D1-SO₃⁻

Me-(CH₂)₁₁-D1

311 REFERENCES IN FILE CA (1907 TO DATE)

16 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

311 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:357249
REFERENCE 2: 143:272506
REFERENCE 3: 143:218167

REFERENCE 4: 143:200456
REFERENCE 5: 143:177538
REFERENCE 6: 143:168154
REFERENCE 7: 143:111855
REFERENCE 8: 143:13142
REFERENCE 9: 143:11537
REFERENCE 10: 142:448108

L83 ANSWER 12 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN 577-11-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Aerosol OT-B (6CI)

OTHER NAMES:

CN 1,4-Bis(2-ethylhexyl) sodium sulfosuccinate

CN Adekacol EC 8600

CN Aerosol A 501

CN Aerosol AOT

CN Aerosol GPG

CN Aerosol OT

CN Aerosol OT 100

CN Aerosol OT 70PG

CN Aerosol OT 75

CN Aerosol OT 75E

CN Aerosol OT 75PG

CN Aerosol OT 94

CN Aerosol OT-A

CN Aerosol OT-S

CN Airrol CT 1

CN Airrol CT 1L

CN Airrol OP

CN Alcopol O

CN Alkasurf SS-O 75

CN Alphasol OT

CN AOT

CN AOT 100

CN AOT I

CN Astrowet 608

CN Astrowet O 70PG

CN Astrowet O 75

CN B 80

CN Berol 478

CN Bis(2-ethylhexyl) S-sodium sulfosuccinate

CN Bis(2-ethylhexyl) sodiosulfosuccinate

CN Bis(2-ethylhexyl) sodium sulfosuccinate

CN Bis(2-ethylhexyl) sulfosuccinate sodium salt

CN Carabon DA 72

CN Celanol DOS 65

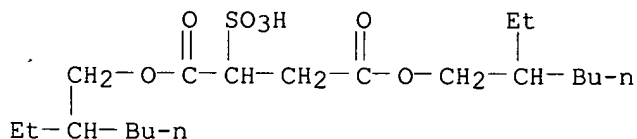
CN Celanol DOS 75

CN Colace

CN Comfolax

CN Complemix

CN Constonate
 CN Coprol
 CN Coprola
 CN Correctol Stool Softener Laxative
 CN Defilin
 CN DESS
 CN Di(2-ethylhexyl) sulfosuccinate sodium salt
 CN Di-2-ethylhexyl sodium sulfosuccinate
 CN Dialose
 CN Dioctlyn
 CN Dioctyl
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
 DISPLAY
 DR 835616-33-6, 59030-04-5, 60202-21-3, 130390-93-1, 66812-62-2, 105956-73-8,
 106396-28-5, 113255-61-1, 51910-13-5, 135843-72-0, 67924-68-9,
 138893-51-3, 76689-26-4, 75418-10-9, 78207-03-1, 52624-44-9, 53023-94-2,
 110162-65-7, 201816-76-4, 202352-75-8, 209122-63-4, 209453-97-4
 MF C20 H38 O7 S . Na
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
 BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
 CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*,
 DIOGENES, DRUGU, EMBASE, GMEIN*, HSDB*, IFICDB, IFIPAT, IFIUDB,
 IMSCOSEARCH, IPA, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, PROUSDDR, PS,
 RTECS*, SCISEARCH, TOXCENTER, USAN, USPAT2, USPATFULL, VETU
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)
 CRN (10041-19-7)



● Na

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7886 REFERENCES IN FILE CA (1907 TO DATE)
 47 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 7896 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 16 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 143:356691

REFERENCE 2: 143:356267

REFERENCE 3: 143:353367

REFERENCE 4: 143:349454

REFERENCE 5: 143:348220

REFERENCE 6: 143:341307
REFERENCE 7: 143:338354
REFERENCE 8: 143:336210
REFERENCE 9: 143:334654
REFERENCE 10: 143:333262

L83 ANSWER 13 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN 504-75-6 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1H-Imidazole, 4,5-dihydro- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Imidazoline (6CI, 7CI, 8CI)

OTHER NAMES:

CN Δ 2-Imidazoline

CN 4,5-Dihydroimidazole

CN Corban 210WS

CN Imidazoline

FS 3D CONCORD

MF C3 H6 N2

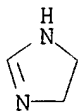
CI COM

LC STN Files: ADISNEWS, AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA,
CAOLD, CAPLUS, CASREACT, CHEMINFORMRX, CHEMLIST, CIN, EMBASE, IFICDB,
IFIPAT, IFIUDB, MEDLINE, NIOSHTIC, PIRA, PROMT, TOXCENTER, TULSA,
USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1188 REFERENCES IN FILE CA (1907 TO DATE)

597 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1188 REFERENCES IN FILE CAPLUS (1907 TO DATE)

5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 143:332028
REFERENCE 2: 143:308902
REFERENCE 3: 143:292028
REFERENCE 4: 143:289093
REFERENCE 5: 143:283009
REFERENCE 6: 143:271007
REFERENCE 7: 143:247932

REFERENCE 8: 143:241257

REFERENCE 9: 143:232397

REFERENCE 10: 143:218184

L83 ANSWER 14 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN 81-24-3 REGISTRY

ED Entered STN: 16 Nov 1984

CN Ethanesulfonic acid, 2-[[[(3 α ,5 β ,7 α ,12 α)-3,7,12-trihydroxy-24-oxocholan-24-yl]amino]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cholane, ethanesulfonic acid deriv.

CN Taurine, N-choloyl- (8CI)

OTHER NAMES:

CN 3 α ,7 α ,12 α -Trihydroxy-5 β -cholan-24-aurine

CN Cholaic acid

CN Cholic acid taurine conjugate

CN Cholyltaurine

CN N-Choloyltaurine

CN NSC 25505

CN Taurocholic acid

FS STEREOSEARCH

DR 54366-16-4, 113341-22-3, 83830-80-2

MF C26 H45 N O7 S

CI COM

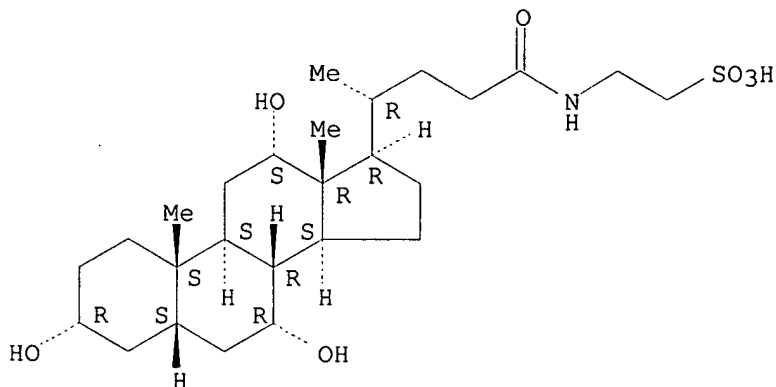
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, NAPRALERT, NIOSHTIC, PROMT, SCISEARCH, TOXCENTER, USPAT2, USPATFULL, VETU

(*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3517 REFERENCES IN FILE CA (1907 TO DATE)

jan delaval - 31 october 2005

68 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3518 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 143:341892

REFERENCE 2: 143:332604

REFERENCE 3: 143:323823

REFERENCE 4: 143:320441

REFERENCE 5: 143:319299

REFERENCE 6: 143:318789

REFERENCE 7: 143:311962

REFERENCE 8: 143:311301

REFERENCE 9: 143:282362

REFERENCE 10: 143:280816

L83 ANSWER 15 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN

RN 50-99-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN D-Glucose (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN (+)-Glucose

CN Anhydrous dextrose

CN Cartose

CN Cerelose

CN Cérellose 2001

CN Clearsweet 95

CN Clintose L

CN Corn sugar

CN CPC hydrate

CN D(+)-Glucose

CN Dextropur

CN Dextrose

CN Dextrosol

CN Glucodin

CN Glucolin

CN Glucose

CN Glucosteril

CN Goldsugar

CN Grape sugar

CN Maxim Energy Gel

CN Meritose

CN Meritose 200

CN Roferose ST

CN Staleydex 111

CN Staleydex 130

CN Staleydex 333

CN Staleydex 95M

CN Sugar, grape

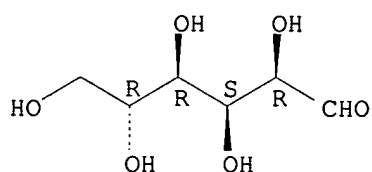
CN Tabfine 097(HS)

CN Vadex

FS STEREOSEARCH

DR 8012-24-6, 8030-23-7, 162222-91-5, 165659-51-8, 50933-92-1, 80206-31-1
 MF C6 H12 O6
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
 BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,
 CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB,
 DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, GMELIN*, HSDB*, IFICDB,
 IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT,
 NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, TOXCENTER, TULSA,
 ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

181851 REFERENCES IN FILE CA (1907 TO DATE)
 2551 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 182061 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 14 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 143:356640
 REFERENCE 2: 143:353425
 REFERENCE 3: 143:353370
 REFERENCE 4: 143:353338
 REFERENCE 5: 143:353335
 REFERENCE 6: 143:353316
 REFERENCE 7: 143:353294
 REFERENCE 8: 143:353208
 REFERENCE 9: 143:353127
 REFERENCE 10: 143:353126

L83 ANSWER 16 OF 16 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 50-70-4 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN D-Glucitol (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Glucitol, D- (8CI)
 OTHER NAMES:
 CN (-)-Sorbitol

CN 7B5697N
CN C*Sorbitidex
CN C*Sorbitidex P 16616
CN Cerestar P 16616
CN Cholaxine
CN Cystosol
CN D-(-)-Sorbitol
CN D-Sorbit 50M
CN D-Sorbitol
CN D-Sorbol
CN Diakarmon
CN E 420
CN Esasorb
CN Foodol D 70
CN Glucarine
CN Glucarine (sorbitol syrup)
CN Glucitol
CN Karion
CN Karion (carbohydrate)
CN Karion instant
CN Kyowa Powder 50M
CN L-Gulitol
CN Multitol
CN Neosorb
CN Neosorb 20/60DC
CN Neosorb 70/02
CN Neosorb 70/70
CN Neosorb P 20/60
CN Neosorb P 60
CN Neosorb P 60W
CN Nivitin
CN NSC 25944
CN P 60W
CN Resulax
CN Sionit
CN Sionit K
CN Sionite
CN Sionon
CN Siosan
CN Sorbex M
CN Sorbex R
CN Sorbex Rp
CN Sorbex S
CN Sorbex X
CN Sorbidex S 16601
CN Sorbilande
CN Sorbilax
CN Sorbit

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

FS STEREOSEARCH

DR 8013-15-8, 8014-89-9, 8036-93-9, 8042-39-5, 8045-74-7, 8046-05-7,
63800-20-4, 15060-73-8, 98201-93-5, 3959-53-3, 36134-87-9, 75398-79-7

MF C6 H14 O6

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU,
DETERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2,
ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB,

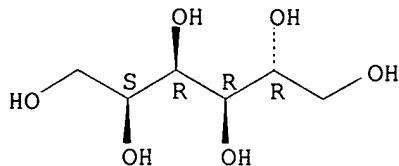
IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA,
PROMT, PS, RTECS*, SPECINFO, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL,
VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

19153 REFERENCES IN FILE CA (1907 TO DATE)
1537 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
19179 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 143:354175
REFERENCE 2: 143:353370
REFERENCE 3: 143:353343
REFERENCE 4: 143:353342
REFERENCE 5: 143:353338
REFERENCE 6: 143:352895
REFERENCE 7: 143:352893
REFERENCE 8: 143:352866
REFERENCE 9: 143:352861
REFERENCE 10: 143:352860

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 10:56:39 ON 31 OCT 2005

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FILE COVERS 1907 - 31 Oct 2005 VOL 143 ISS 19
FILE LAST UPDATED: 30 Oct 2005 (20051030/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> => d all hitstr tot 179

L79 ANSWER 1 OF 17 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2005:443217 HCAPLUS
ED Entered STN: 25 May 2005
TI Manufacture of soluble **glyphosate** solids as weedicides
IN Wang, Guocheng; Liang, Xiaoqin; Liu, Rui
PA Sichuan Ber Industry Co., Ltd., Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, No pp. given
CODEN: CNXXEV
DT Patent
LA Chinese
IC ICM A01N057-10
CC 5-3 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1504093	A	20040616	CN 2002-127950	20021204
PRAI	CN 2002-127950		20021204		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
CN 1504093	ICM	A01N057-10

AB The title weedicides are prepared from 80-98% **glyphosate** powder (31-68 weight%), carbonates or hydrocarbonates (22-61%), and surfactants (6-12%). The carbonates or hydrocarbonates can be selected from NaCO₃, **ammonium carbonate**, sodium bicarbonate, and **ammonium bicarbonate**. The weedicides are easy to use and have low manufacturing cost and good weeding performance.

ST solid soluble **glyphosate** weedicide manuf

IT INDEXING IN PROGRESS

IT Surfactants

(anionic; manufacture of soluble **glyphosate** solids as weedicides)

IT Surfactants

(cationic; manufacture of soluble **glyphosate** solids as weedicides)

IT Alternanthera philoxeroides

Citrus sinensis

Digitaria sanguinalis

Herbicides

Solubility

Surfactants

(manufacture of soluble **glyphosate** solids as weedicides)

IT Surfactants

(nonionic; manufacture of soluble **glyphosate** solids as weedicides)

IT Agrochemical formulations

(solids, soluble; manufacture of soluble **glyphosate** solids as weedicides)

IT 144-55-8, Sodium hydrogen carbonate 497-19-8, Sodium carbonate
506-87-6, **Ammonium carbonate** 1066-33-7

, Ammonium hydrogen carbonate

1071-83-6, Glyphosate

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(manufacture of soluble **glyphosate** solids as weedicides)

IT INDEXING IN PROGRESS

IT 506-87-6, Ammonium carbonate 1066-33-7

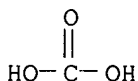
, Ammonium hydrogen carbonate

1071-83-6, Glyphosate

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(manufacture of soluble **glyphosate** solids as weedicides)

RN 506-87-6 HCAPLUS

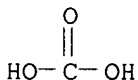
CN Carbonic acid, diammonium salt (8CI, 9CI) (CA INDEX NAME)



● 2 NH₃

RN 1066-33-7 HCAPLUS

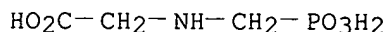
CN Carbonic acid, monoammonium salt (8CI, 9CI) (CA INDEX NAME)



● NH₃

RN 1071-83-6 HCAPLUS

CN Glycine, N-(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)



L79 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:327812 HCAPLUS

DN 142:477436

ED Entered STN: 18 Apr 2005

TI Process for preparation of quick-dissolving **glyphosate** herbicide granules

IN Lin, Yuan

PA Zhenjiang Jiangnan Chemical Plant, Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 7 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

IC ICM A01N057-10

CC 5-3 (Agrochemical Bioregulators)

FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

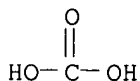
DATE

jan delaval - 31 october 2005

PI	CN 1433690	A	20030806	CN 2002-102749	20020123
PRAI	CN 2002-102749		20020123		

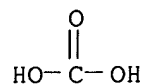
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
CN 1433690	ICM	A01N057-10
AB	Herbicide granules comprise glyphosate , a soluble salt of glyphosate , solid surfactant, basic compound, slow-releasing agent, Ca chelator, defoaming agent, synergist, wetting agent, and dye or pigment. The soluble salt may be the Na, NH4+ , monoethylamine, and isopropylamine salt of glyphosate ; the basic compound may be a carbonate or bicarbonate of Na, NH4+ , monoethylamine, and isopropylamine; and the surfactant may be a nonionic surfactant or its mixture with another nonionic, cationic and anionic surfactant. The grain size of glyphosate granule is 8-60 mesh; and the water content is 0.1-2%. The glyphosate granules can kill or inhibit the growth of weeds.	
ST	glyphosate herbicide granule prepn	
IT	Herbicides (fast-dissolving glyphosate herbicide granules and process for their preparation)	
IT	Pesticide formulations (granules; fast-dissolving glyphosate herbicide granules and process for their preparation)	
IT	Surfactants (nonionic or mixed; fast-dissolving glyphosate herbicide granules and process for their preparation)	
IT	144-55-8, Sodium bicarbonate, biological studies 497-19-8, Sodium carbonate, biological studies 506-87-6, Ammonium carbonate 1066-33-7, Ammonium bicarbonate 15715-55-6 52060-55-6 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (fast-dissolving glyphosate herbicide granules and process for their preparation)	
IT	1071-83-6, Glyphosate 34494-03-6 38641-94-0, Glyphosate isopropylamine 40465-66-5 , Ammonium glyphosate 40465-82-5, Glyphosate monoethylamine salt RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (fast-dissolving herbicide granules and process for their preparation)	
IT	506-87-6, Ammonium carbonate 1066-33-7 , Ammonium bicarbonate RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (fast-dissolving glyphosate herbicide granules and process for their preparation)	
RN	506-87-6 HCAPLUS	
CN	Carbonic acid, diammonium salt (8CI, 9CI) (CA INDEX NAME)	

● 2 NH₃

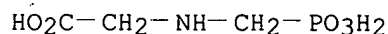
RN 1066-33-7 HCAPLUS

CN Carbonic acid, monoammonium salt (8CI, 9CI) (CA INDEX NAME)

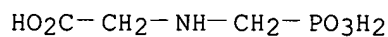


● NH₃

IT 1071-83-6, Glyphosate 34494-03-6
 38641-94-0, Glyphosate isopropylamine 40465-66-5
 , Ammonium glyphosate 40465-82-5,
 Glyphosate monoethylamine salt
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (fast-dissolving herbicide granules and process for their preparation)
 RN 1071-83-6 HCAPLUS
 CN Glycine, N-(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 34494-03-6 HCAPLUS
 CN Glycine, N-(phosphonomethyl)-, monosodium salt (9CI) (CA INDEX NAME)

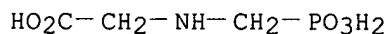


● Na

RN 38641-94-0 HCAPLUS
 CN Glycine, N-(phosphonomethyl)-, compd. with 2-propanamine (1:1) (9CI) (CA INDEX NAME)

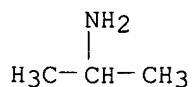
CM 1

CRN 1071-83-6
 CMF C3 H8 N O5 P



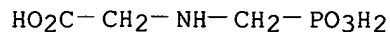
CM 2

CRN 75-31-0
 CMF C3 H9 N



RN 40465-66-5 HCAPLUS

CN Glycine, N-(phosphonomethyl)-, monoammonium salt (9CI) (CA INDEX NAME)



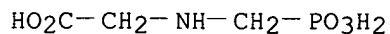
RN 40465-82-5 HCAPLUS

CN Glycine, N-(phosphonomethyl)-, compd. with ethanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 1071-83-6

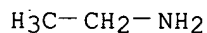
CMF C3 H8 N O5 P



CM 2

CRN 75-04-7

CMF C2 H7 N



L79 ANSWER 3 OF 17 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:141200 HCAPLUS

DN 142:254568

ED Entered STN: 18 Feb 2005

TI Methods and compositions for increasing the efficacy of biologically-active ingredients such as antitumor agents

IN Windsor, J. Brian; Roux, Stan J.; Lloyd, Alan M.; Thomas, Collin E.

PA Board of Regents, the University of Texas System, USA

SO PCT Int. Appl., 243 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C12N

CC 1-6 (Pharmacology)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2005014777	A2	20050217	WO 2003-US32667	20031016
	WO 2005014777	A3	20050915		
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OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
 TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 CA 2502148 AA 20050217 CA 2003-2502148 20031016
 EP 1576150 A2 20050921 EP 2003-816736 20031016
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 PRAI US 2002-418803P P 20021016
 WO 2003-US32667 W 20031016

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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WO 2005014777	ICM	C12N
---------------	-----	------

AB The invention provides methods and compns. for modulating the sensitivity of cells to cytotoxic compds. and other active agents. In accordance with the invention, compns. are provided comprising combinations of ectophosphatase inhibitors and active agents. Active agents include antibiotics, fungicides, herbicides, insecticides, chemotherapeutic agents, and plant growth regulators. By increasing the efficacy of active agents, the invention allows use of compns. with lowered concns. of active ingredients.

ST antibiotic fungicide herbicide insecticide plant growth regulator combination antitumor

IT Quaternary ammonium compounds, biological studies

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

((oxydi-2,1-ethanediyl)bis[cocoalkyldimethyl, chlorides; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Zeolites (synthetic), biological studies

Zeolites (synthetic), biological studies

Zeolites (synthetic), biological studies

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(Ag; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Zeolites (synthetic), biological studies

Zeolites (synthetic), biological studies

Zeolites (synthetic), biological studies

Zeolites (synthetic), biological studies

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(AgCu; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Zeolites (synthetic), biological studies

Zeolites (synthetic), biological studies

Zeolites (synthetic), biological studies

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(AgZn; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Surfactants

(Alkanolamide; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Surfactants

(Armul; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

- IT Proteins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(Bacillus thuringiensis kurstaki; methods and compns. for increasing
the efficacy of biol.-active ingredients such as antitumor agents)
- IT Surfactants
(Berol; methods and compns. for increasing the efficacy of biol.-active
ingredients such as antitumor agents)
- IT Quaternary ammonium compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(C12-18-alkyltrimethyl, chlorides; methods and compns. for increasing
the efficacy of biol.-active ingredients such as antitumor agents)
- IT Sulfonic acids, biological studies
Sulfonic acids, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(C20-30-alkane, zinc salts; methods and compns. for increasing the
efficacy of biol.-active ingredients such as antitumor agents)
- IT Balsams
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(Canadian; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(Chenopodium; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT **Alcohols, biological studies**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(C11-15, ethoxylated, compds. with iodine; methods and compns. for
increasing the efficacy of biol.-active ingredients such as antitumor
agents)
- IT **Alcohols, biological studies**
Alcohols, biological studies
Alcohols, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(C11-15-secondary, ethoxylated; methods and compns. for increasing the
efficacy of biol.-active ingredients such as antitumor agents)
- IT Isoalkanes
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(C12-14; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT **Alcohols, biological studies**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(C12-15; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT **Alcohols, biological studies**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(C4-12; methods and compns. for increasing the efficacy of biol.-active
ingredients such as antitumor agents)
- IT **Alcohols, biological studies**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)

- (C6-12; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Diglycerides
Glycerides, biological studies
Monoglycerides
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(C8-10 monoglycerides and diglycerides; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT **Alcohols, biological studies**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(C8-10; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Solvents
(Dowanol; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Surfactants
(Emcol; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Surfactants
(Emphos; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Surfactants
(Emulgator; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Surfactants
(Emulsogen; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Solvents
(Espesol I; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Surfactants
(Flomo; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Pheromones, animal
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(German cockroach; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Bacillus thuringiensis kurstaki
(HD-1; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Soaps
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Ivory Snow; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Fats and Glyceridic oils, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Japan wax; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Sarcoma
(Kaposi's; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Paraffin oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Low mol. weight; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Solvents
(Lubrizol 544; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study) (MDR, Arabidopsis thaliana; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Polyurethanes, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Macroplast; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Melaleuca alternifolia; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Stabilizing agents
(Nuostabe V 1913; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Balsams
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Peru; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Surfactants
(Pluraflo E4A; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Ruta graveolens, Rutaceae; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Siberian fir; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Emulsifying agents
(Sponto; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Antimicrobial agents
(Sterilix; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Named reagents and solutions
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Stoddard; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Surfactants
(Surflo; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Surfactants
(Toximul; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Surfactants
(Trycol; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

- IT Surfactants
(Tryfac; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Lymphoproliferative disorders
(Waldenstrom's macroglobulinemia; methods and compns. for increasing
the efficacy of biol.-active ingredients such as antitumor agents)
- IT Kidney, neoplasm
(Wilms'; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Polysiloxanes, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(Y-30 & DB-110A; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Leukemia
(acute lymphocytic; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Urethanes
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(adhesives; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Immunostimulants
(adjuvants, T-mulz; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Immunostimulants
(adjuvants; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Flours and Meals
(alfalfa; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Amines, biological studies
Amines, biological studies
Petroleum resins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(aliphatic; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Helleborus
Schoenocaulon
(alkaloids; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Sulfonic acids, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(alkanesulfonic, potassium salts; methods and compns. for increasing
the efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(alkenyldimethylethyl, bromides; methods and compns. for increasing the
efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(alkyl(dichlorobenzyl)dimethyl, chlorides; methods and compns. for
increasing the efficacy of biol.-active ingredients such as antitumor
agents)
- IT Quaternary **ammonium** compounds, biological studies

- RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkyl[(dichlorophenyl)methyl]dimethyl, chlorides; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT **Polyoxyalkylenes, biological studies**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkylaryl derivs.; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT **Polyoxyalkylenes, biological studies**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkylaryl ethers; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkylbenzyl dimethyl, alkylamines; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkylbenzyl dimethyl, chlorides; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkyldi(hydroxyethyl)methyl, chlorides; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkyldimethyl(dimethylbenzyl), chlorides; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkyldimethyl(ethylbenzyl), chlorides; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkyldimethyl(ethylbenzyl), cyclohexylsulfamates; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkyldimethyl(hydroxyoxopyranylmethyl), chlorides; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkyldimethyl(isopropylbenzyl), chlorides; methods and compns. for

- increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkyldimethyl(isopropylphenyl), chlorides; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkyldimethylethyl, bromides; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkyldimethylethylbenzyl, cyclohexylsulfamates; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkyldimethylethylbenzyl, cyclohexylsulfonates; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkyltrimethyl, bromides; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkyltrimethyl, chlorides; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Waxes
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ambergris; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT **Fatty acids, biological studies**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(amine salts; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Glycosides
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(amino; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Caseins, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**ammonium** complexes; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(anise; methods and compns. for increasing the efficacy of biol.-active

- ingredients such as antitumor agents)
- IT Antitumor agents
(antibiotic; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Cytotoxic agents
(antimetabolites; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Antibiotics
Drug resistance
(antitumor; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Petroleum, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(aromatic, alkylated; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Straw
(barley; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(bay; methods and compns. for increasing the efficacy of biol.-active
ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(benzyl(hydrogenated tallow alkyl)dimethyl, salts with bentonite;
methods and compns. for increasing the efficacy of biol.-active
ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(benzyl-C12-16-alkyldimethyl, chlorides; methods and compns. for
increasing the efficacy of biol.-active ingredients such as antitumor
agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(benzyl-C12-14-alkyldimethyl; methods and compns. for increasing the
efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(benzyl-C12-18-alkyldimethyl, salts with 1,2-benzisothiazol-3(2H)-one
1,1-dioxide (1:1); methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(benzylcocoalkylbis(hydroxyethyl), chlorides; methods and compns. for
increasing the efficacy of biol.-active ingredients such as antitumor
agents)
- IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(bergamot; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)
(bis(hydrogenated tallow alkyl)dimethyl, Me sulfates; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Prunus amygdalus
(bitter almond; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Slags
(blast-furnace; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Linseed oil
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(boiled; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Fats and Glyceridic oils, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(bone oil; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cade; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Pigments, nonbiological
(cadmium yellow; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cajuput; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Shale
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(calcareous; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Caseins, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(calcium complexes; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(calendula officinalis; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(camphor; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Feed
(canary seed; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Waxes
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(candle; methods and compns. for increasing the efficacy of

biol.-active ingredients such as antitumor agents)

IT Syrups (sweetening agents)
(cane; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Gelatins, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(capsules; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Head, neoplasm
(carcinoma; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Feed
(cat food; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Milk substitutes
(cattle; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cedar leaf; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Essential oils
Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cedarwood; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Uterus, neoplasm
(cervix; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(chamomile, German; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Perfumes
(cherry fragrance oil 493; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Paraffin waxes, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(chloro; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Carcinoma
Chorion, neoplasm
(choriocarcinoma; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Leukemia
(chronic lymphocytic; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Leukemia
(chronic myelocytic; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cinnamon; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

- IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(citronella; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Cellulose pulp
(citrus; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(citrus; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(clove; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT **Phenols, biological studies**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(coal tar; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Tar oils
(coal; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Naphtha
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(coal; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Amines, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(coco alkyl, compds. with tetrachlorophenol (1:1); methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT **Amides, biological studies**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(coco, N-(hydroxyethyl); methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT **Fatty acids, biological studies**
Fatty acids, biological studies
Fatty acids, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(coco, cadmium salts; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT **Fatty acids, biological studies**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(coco, diethylamine salts; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Theobroma cacao
(cocoa shells; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Amine oxides
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

- (cocoalkyldimethyl; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Intestine, neoplasm
(colon; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Bentonite, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(compound with **dimethyldioctadecylammonium** chloride; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Bakery products
(cookies; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Naphthenic acids, biological studies
Naphthenic acids, biological studies
Naphthenic acids, biological studies
Resin acids
Resin acids
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(copper salts; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Flours and Meals
(corn, hearts; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Food analysis
(corn-containing, hydrolyzed; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Flours and Meals
(corn; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT **Fatty acids, biological studies**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cottonseed-oil, Me esters; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Flours and Meals
(cottonseed; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Avena sativa
Triticum aestivum
(cracked; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Bread
(crumb; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Syzygium aromaticum
(crushed; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cubeb; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Isoalkanes
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(c11-12; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(di(alkyloxypropyl)dimethyl, chlorides; methods and compns. for
increasing the efficacy of biol.-active ingredients such as antitumor
agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(dialkylbenzylmethyl, chlorides; methods and compns. for increasing the
efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(dialkyldimethyl, chlorides; methods and compns. for increasing the
efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(dialkyldimethyl, polynaphthylamines; methods and compns. for
increasing the efficacy of biol.-active ingredients such as antitumor
agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(dicoco alkyldimethyl, chlorides; methods and compns. for increasing
the efficacy of biol.-active ingredients such as antitumor agents)
- IT Quaternary **ammonium** compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(dicocoalkyldimethyl, chlorides; methods and compns. for increasing the
efficacy of biol.-active ingredients such as antitumor agents)
- IT **Fatty acids, biological studies**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(dimer acids; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Urogenital tract
(disease; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Coal tar
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(distillate, heavy oils; methods and compns. for increasing the
efficacy of biol.-active ingredients such as antitumor agents)
- IT Coal tar
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(distillate, upper; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Petroleum products
(distillates, C12-30-aromatic; methods and compns. for increasing the
efficacy of biol.-active ingredients such as antitumor agents)
- IT Petroleum products
(distillates, KM spray oil; methods and compns. for increasing the
efficacy of biol.-active ingredients such as antitumor agents)
- IT Petroleum products
(distillates, aliphatic; methods and compns. for increasing the efficacy
of biol.-active ingredients such as antitumor agents)
- IT Petroleum products

- (distillates, aromatic; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Petroleum products
(distillates, hydrotreated light paraffinic; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Petroleum products
(distillates, refined; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Petroleum products
(distillates, solvent-refined light paraffinic; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Petroleum products
(distillates; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Lime (chemical)
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(dolomitic; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Blood
(dried; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT High throughput screening
(drug; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Nicotiana tabacum
(dust; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Uterus, neoplasm
(endometrium, adenocarcinoma; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Linseed oil
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(epoxidized; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Myeloproliferative disorders
(essential thrombocythemia; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT **Fatty acids, biological studies**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(esters; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Monoglycerides
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ethoxylated coco; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Lanolin
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ethoxylated, acetate; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Lanolin
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ethoxylated; methods and compns. for increasing the efficacy of

- biol.-active ingredients such as antitumor agents)
- IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(eucalyptus; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Allium cepa
Citrus
Glycine max
Juniperus communis
Malt
Myrica cerifera
(extract; methods and compns. for increasing the efficacy of biol.-active
ingredients such as antitumor agents)
- IT Calendula officinalis
Gland
Lavandula
Lonchocarpus
Salvia
Tanacetum
(exts.; methods and compns. for increasing the efficacy of biol.-active
ingredients such as antitumor agents).
- IT **Alcohols, biological studies**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(fatty, C4-16; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT **Alcohols, biological studies**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(fatty; methods and compns. for increasing the efficacy of biol.-active
ingredients such as antitumor agents)
- IT **Fatty acids, biological studies**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(fish-oil, potassium salts; methods and compns. for increasing the
efficacy of biol.-active ingredients such as antitumor agents)
- IT Fats and Glyceridic oils, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(fish; methods and compns. for increasing the efficacy of biol.-active
ingredients such as antitumor agents)
- IT Zea mays
(flour and meal, hearts; methods and compns. for increasing the
efficacy of biol.-active ingredients such as antitumor agents)
- IT Cottonseed
Glycine max
Secale cereale
Zea mays
(flour and meal; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Juglans regia
Wood
(flour; methods and compns. for increasing the efficacy of biol.-active
ingredients such as antitumor agents)
- IT Polyesters, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(foam, UL-94 HF1 listed; methods and compns. for increasing the
efficacy of biol.-active ingredients such as antitumor agents)

IT Mycosis
(fungoides; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Repellents
(game; methods and compns. for increasing the efficacy of biol.-active
ingredients such as antitumor agents)

IT Disease, animal
(genitourinary; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(geranium; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Vitis vinifera
(grape pomace; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Pseudotsuga menziesii
(ground bark; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Zea mays
(ground cobs; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Oryza sativa
(ground hulls; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Sesamum indicum
(ground plant; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Avena sativa
(ground; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Coffea
(grounds; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Leukemia
(hairy-cell; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Wood
(hard, oil; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Carcinoma
(head; methods and compns. for increasing the efficacy of biol.-active
ingredients such as antitumor agents)

IT Naphtha
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(heavy aromatic; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Drug screening
(high throughput; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Coal tar pitch
(high-temperature; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Prunus amygdalus
(hulls, shells; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Glycine max
Oryza sativa

(hulls; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Neoplasm
(humoral hypercalcemia of malignancy; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Resin acids
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(hydrogenated, Me esters; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Castor oil
Rosin
Soybean oil
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(hydrogenated; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Syrups (sweetening agents)
(hydrolyzed starch; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Paraffin waxes, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(hydrotreated; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Pancreatic islet of Langerhans, neoplasm
(insulinoma; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Syrups (sweetening agents)
(invert; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Antibacterial agents
(iodophors; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Pigments, nonbiological
(iron oxide; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(jasmine; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Paints
(latex; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(lavender; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Naphthenic acids, biological studies
Naphthenic acids, biological studies
Naphthenic acids, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(lead salts; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Eucalyptus
Mentha pulegium

- (leaves; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(lemon; methods and compns. for increasing the efficacy of biol.-active
ingredients such as antitumor agents)
- IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(lemongrass; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Skin, disease
(lesion; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Naphtha
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(light aromatic; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(lime; methods and compns. for increasing the efficacy of biol.-active
ingredients such as antitumor agents)
- IT Dyes
(liquid, Green M; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Capsicum annum annum
(longum group, paprika; methods and compns. for increasing the efficacy
of biol.-active ingredients such as antitumor agents)
- IT Fats and Glyceridic oils, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(margosa; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Beta vulgaris saccharifera
Citrus
Fish
Meat
Medicago sativa
(meal; methods and compns. for increasing the efficacy of biol.-active
ingredients such as antitumor agents)
- IT Flours and Meals
(meat meal; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Fats and Glyceridic oils, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(menhaden; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Naphthenic acids, biological studies
Naphthenic acids, biological studies
Naphthenic acids, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(mercury salts; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
- IT Acacia
Adrenal cortex, neoplasm

Agrobacterium tumefaciens
Agrobacterium vitis
Agrotis segetum granulovirus
Alkylating agents, biological
Allium cepa
Allium sativum
Ampelomyces quisqualis
Anthracene oil
Antibiotic resistance
Apparatus
Arabidopsis thaliana
Arachis hypogaea
Aschersonia aleyrodis
Autographa californica nucleopolyhedrovirus
Avena sativa
Bacillus amyloliquefaciens
Bacillus cereus
Bacillus sphaericus
Bacillus subtilis
Bacillus thuringiensis
Bacillus thuringiensis
Bacillus thuringiensis darmstadiensis
Bacillus thuringiensis morrisoni
Beeswax
Bladder, neoplasm
Bone meal
Brain, neoplasm
Bran
Burkholderia cepacia
Capsicum
Caramel (color)
Carcinoid
Cheese
Cinnamon (horticultural common name)
Colloids
Combination chemotherapy
Cork
Corncob
Cottonseed meal
Creosote
Cytotoxic agents
Daucus carota
Desmodium
Drug delivery systems
Drug screening
Drugs
Dyes
Egg
Esophagus, neoplasm
Filter paper
Flours and Meals
Fumigants
Fungicides
Gentiana
Glues
Glues
Gossypium hirsutum
Helicoverpa zea
Helicoverpa zea nucleopolyhedrovirus
Herbicides

Hodgkin's disease
Honey
Human
Insecticides
Jet aircraft fuel
Liliopsida
Lung, neoplasm
Lymantria dispar nucleopolyhedrovirus
Magnoliopsida
Mammary gland, neoplasm
Matricaria recutita
Meat
Medicago sativa
Melanoma
Mentha piperita
Milk
Mint
Molasses
Multiple myeloma
Neodiprion lecontei nucleopolyhedrovirus
Neodiprion sertifer
Neodiprion sertifer
Nicotiana tabacum
Nosema locustae
Oatmeal
Odor and Odorous substances
Orgyia pseudotsugata nucleopolyhedrovirus
Oryza sativa
Ovary, neoplasm
Paecilomyces fumoso-roseus
Paecilomyces lilacinus
Paenibacillus lentimorbus
Paenibacillus popilliae
Paints
Paper
Paperboard
Peanut butter
Phlebia gigantea
Phlebiopsis gigantea
Phytophthora palmivora
Piper nigrum
Polycythemia vera
Propellants (sprays and foams)
Prostate gland, neoplasm
Pseudomonas chlororaphis
Pseudomonas chlororaphis
Pseudomonas fluorescens
Pseudomonas syringae
Puccinia canaliculata
Quassia
Quillaja
Rabbit calicivirus
Raisin
Rhizobium leguminosarum
Rhizobium leguminosarum phaseoli
Rosmarinus officinalis
Sawdust
Seaweed
Sinorhizobium meliloti
Skin, neoplasm

Sludges
Solanum tuberosum
Solvent naphtha
Solvent naphtha
Sorghum bicolor
Soybean meal
Sphagnum
Spodoptera exigua nucleopolyhedrovirus
Staphylococcus aureus
Stomach, neoplasm
Streptomyces griseoviridis
Tar oils
Testis, neoplasm
Thickening agents
Thymus (plant)
Tomato mosaic virus
Trichoderma harzianum
Trichoderma polysporum
Trigonella foenum-graecum
Triticum aestivum
Verticillium lecanii
Wheat flour
Whey
Wool
Xanthomonas campestris poannua
Yeast
Zea mays
 (methods and compns. for increasing the efficacy of biol.-active
 ingredients such as antitumor agents)

IT Amino acids, biological studies
Androgens
Asbestos
Asphalt
Bentonite, biological studies
Canola oil
Carbon black, biological studies
Caseins, biological studies
Castor oil
Chlorinated natural rubber
Coal tar
Coconut oil
Cod liver oil
Collagens, biological studies
Corn oil
Corticosteroids, biological studies
Cottonseed oil
Creosote oil
Cytokinins
Diatomite
Epoxy resins, biological studies
Essential oils
Feldspar-group minerals
Fertilizers
Gasoline
Gelatins, biological studies
Gibberellins
Glycopeptides
Granite, biological studies
Growth regulators, plant
Humic acids

Hydrocarbon oils
Hydrocarbon oils
Jojoba oil
Kaolin, biological studies
Kerosene
Lard
Ligroine
Lime (chemical)
Linseed oil
Linseed oil
Macrolides
Mica-group minerals, biological studies
Naphthenic acids, biological studies
Naphthenic oils
Natural products, pharmaceutical
Nitrile rubber, biological studies
Olive oil
Palm oil
Paraffin oils
Paraffin oils
Paraffin waxes, biological studies
Peanut oil
Perlite
Petrolatum
Petroleum hydrocarbons
Petroleum resins
Petroleum spirits
Phenols, biological studies
Phosphoproteins
Plastics, biological studies
Polyamide fibers, biological studies
Polyamides, biological studies
Polyenes
Polyoxyalkylenes, biological studies
Polysiloxanes, biological studies
Polysiloxanes, biological studies
Polyurethanes, biological studies
Polyurethanes, biological studies
Polyvinyl butyrals
Progestogens
Protein hydrolyzates
Pumice
Pyrethrins
Pyrethrins
Rape oil
Resins
Rosin
Rubber, biological studies
Safflower oil
Sand
Saponins
Shale
Shellac
Silica gel, biological studies
Soaps
Soapstone
Soybean oil
Tall oil
Tallow
Tallow

Tetracyclines

Tung oil

Turpentine

Waxes

Wood tar

Zeins

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Fats and Glyceridic oils, biological studies

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(mink; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Onium compounds

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(morpholinium, 4-ethyl-4-soya alkyl, Et sulfates; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Onium compounds

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(morpholinium, alkylmethyl, sulfates; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Onium compounds

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(morpholinium, 4-Et, ethylsulfates; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Anagrapha falcifera

(multi-nuclear polyhedrosis virus; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Skin, neoplasm

(mycosis fungoides; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Carcinoma

(neck; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Abies

(needle oil; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Neck, anatomical

(neoplasm, carcinoma; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Nerve, neoplasm

(neuroblastoma; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Chloramines

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(nitrogen mustards; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Fuel oil

(number 1; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Diesel fuel

Fuel oil

- (number 2; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Fuel oil
(number 4; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Fuel oil
(number 6; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Lymphoma
(non-Hodgkin's; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Surfactants
(nonionic; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Paraffin waxes, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(normal C5-20; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Meat
(nutria; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Aloe barbadensis
Lavandula hybrida
(oil; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Resins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(oleoresins, capsicum; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Resins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(olibanum; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(orange, sweet; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Bone, neoplasm
Sarcoma
(osteosarcoma; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Solvents
(oxygenated; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Citrus limon
(peel oil; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pennyroyal, Hedeoma pulegioides; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pepper, Piper nigrum berry; methods and compns. for increasing the

efficacy of biol.-active ingredients such as antitumor agents)

IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(peppermint; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Sulfonic acids, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(petroleum, sodium salts; methods and compns. for increasing the
efficacy of biol.-active ingredients such as antitumor agents)

IT Tar
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(pine, oil; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Tar oils
(pine; methods and compns. for increasing the efficacy of biol.-active
ingredients such as antitumor agents)

IT Essential oils
Tar
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(pine; methods and compns. for increasing the efficacy of biol.-active
ingredients such as antitumor agents)

IT Rosin
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(polymerized; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Linseed oil
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(polymer with dicyclopentadiene; methods and compns. for increasing the
efficacy of biol.-active ingredients such as antitumor agents)

IT Linseed oil
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(polymer with maleic anhydride and tung oil, Kelsol 5134; methods and
compns. for increasing the efficacy of biol.-active ingredients such as
antitumor agents)

IT Vinyl compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(polymers, synthetic; methods and compns. for increasing the efficacy
of biol.-active ingredients such as antitumor agents)

IT Vinyl compounds, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(polymers; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Malus pumila
(pomace; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Feed
(poultry; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT Gelatins, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)

- (powdered; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Beta vulgaris
(powder; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Zea mays
(product, hydrolyzed; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Carcinoma
(pulmonary small-cell; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Citrus sinensis
(pulp; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Bombyx mori
(pupae; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Derris (genus)
(resins; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Antitumor agents
(resistance to; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Sarcoma
(rhabdomyosarcoma; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Cucurbita foetidissima
(root powder; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(rosemary; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(rosin; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Flours and Meals
(rye; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Naphthenic acids, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(salts, compound with **dodecyldimethylbenzylammonium**; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Naphthenic acids, biological studies
Resin acids
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(salts, tributyltin salt; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Sulfonic acids, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(salts; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)
- IT Essential oils

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (sassafras; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Algae
 (sea, extract; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Weed
 (seed oil; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Panicum
 (seed; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Fats and Glyceridic oils, biological studies
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (sesame; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Fertilizers
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (sewage sludge; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Carya illinoensis
 (shell, flour; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Egg
 (shell; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Juglans regia
 (shells, ground; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Arachis hypogaea
 Clam
 Oyster
 (shells; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Aerogels
 (silica; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Lung, neoplasm
 (small-cell carcinoma; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Coconut oil
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (soap; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Caseins, biological studies
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (sodium complexes; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Polyphosphoric acids
 Sulfonic acids, biological studies
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (sodium salts; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Soaps

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (sodium tallow; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Animal tissue, disease
 (soft, neoplasm, sarcoma; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Sarcoma
 (soft-tissue; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Amines, biological studies
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (soya alkyl, ethoxylated; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT **Fatty acids, biological studies**
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (soya, Me esters; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT **Fatty acids, biological studies**
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (soya, tertiary amine salts; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Flours and Meals
 (soybean; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Proteins
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (soybean; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Essential oils
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (spearmint; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Fats and Glyceridic oils, biological studies
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (sperm oil; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Gliocladium catenulatum
 Paenibacillus popilliae
 Phlebiopsis gigantea
 (spores; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Hordeum vulgare
 (straw; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Bacillus thuringiensis san diego
 (subsp San Diego; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Cod liver oil
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (sulfonated; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Petroleum, biological studies

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (sulfurized; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Helianthus annuus
 (sunflower seed; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Seed
 (sunflower; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT **Fatty acids, biological studies**
Fatty acids, biological studies
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (tall-oil, copper salts; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT **Fatty acids, biological studies**
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (tall-oil, potassium salts; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT **Fatty acids, biological studies**
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (tall-oil; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Soaps
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (tallow; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Essential oils
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (thyme, Thymus vulgaris; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Antifouling agents
 (tin-containing acrylic polymer containing; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Acrylic polymers, biological studies
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (tin-containing; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Petroleum, biological studies
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (unrefined; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Carcinoma
 (uterine endometrial adenocarcinoma; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Fats and Glyceridic oils, biological studies
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (vegetable, hydrogenated; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Fats and Glyceridic oils, biological studies
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)
(vegetable, methylated; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Fats and Glyceridic oils, biological studies
Fats and Glyceridic oils, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(vegetable; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Alkaloids, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(vinca; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Dyes
(water-soluble; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Glycerides, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(wheat germ-oil; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Fats and Glyceridic oils, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(wheat germ; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Essential oils
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(wintergreen; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Creosote
(wood; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Pigments, nonbiological
(yellow, cadmium; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Naphthenic acids, biological studies
Naphthenic acids, biological studies
Resin acids
Resin acids
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(zinc salts; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Interferons
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(α ; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Lactams
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(β -; methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT Toxins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(δ -endotoxins, Cry1Ab; methods and compns. for increasing the

efficacy of biol.-active ingredients such as antitumor agents)

IT Toxins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(δ -endotoxins, Cry9C (crystal protein 9C)); methods and compns.
for increasing the efficacy of biol.-active ingredients such as
antitumor agents)

IT Toxins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(δ -endotoxins, CryIA(b) (crystal protein IA(b)); methods and
compns. for increasing the efficacy of biol.-active ingredients such as
antitumor agents)

IT Toxins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(δ -endotoxins, CryIA(c) (crystal protein IA(c)); methods and
compns. for increasing the efficacy of biol.-active ingredients such as
antitumor agents)

IT Toxins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(δ -endotoxins, CryIF (crystal protein IF); methods and compns.
for increasing the efficacy of biol.-active ingredients such as
antitumor agents)

IT Toxins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(δ -endotoxins, CryIIIA (crystal protein IIIA); methods and
compns. for increasing the efficacy of biol.-active ingredients such as
antitumor agents)

IT 92-52-4D, 1,1'-Biphenyl, chloro derivs.
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(Aroclor; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT 125695-78-5
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(Isomate LBAM; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT 106998-35-0
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(Isomate OFM; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT 11104-05-5
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(Luretape; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT 9003-28-5
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(Polyvis O-SH; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)

IT 60568-05-0
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(Xyligen B; methods and compns. for increasing the efficacy of

biol.-active ingredients such as antitumor agents)
IT 9000-69-5, Pectin
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(citrus; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
IT 7631-86-9, Silica, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(crystalline-fused; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
IT 64529-56-2
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(ebuzin,tycor; methods and compns. for increasing the efficacy of
biol.-active ingredients such as antitumor agents)
IT 9001-77-8D, eco-
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(methods and compns. for increasing the efficacy of biol.-active
ingredients such as antitumor agents)
IT 50-00-0, Formaldehyde, biological studies 50-07-7 50-18-0 50-29-3,
biological studies 50-44-2 50-70-4, D-Glucitol, biological
studies 50-76-0, Actinomycin D 50-79-3 50-91-9 50-99-7,
D-Glucose, biological studies 51-21-8 51-28-5, biological studies
51-36-5 52-24-4 52-68-6 52-85-7 52-90-4, L-Cysteine, biological
studies 53-03-2 53-19-0 53-41-8 54-11-5 54-64-8 55-38-9
55-68-5 55-98-1 56-23-5, biological studies 56-35-9 56-36-0
56-38-2 56-53-1 56-72-4 56-75-7 57-06-7 57-09-0 57-13-6, Urea,
biological studies 57-22-7 57-48-7, D-Fructose, biological studies
57-50-1, biological studies 57-63-6 57-85-2 58-27-5 58-36-6
58-89-9 59-05-2 59-30-3D, analogs, biological studies 59-50-7
59-87-0 60-00-4, biological studies 60-12-8, Benzeneethanol 60-51-5
60-57-1 61-73-4 62-38-4 62-53-3, Benzenamine, biological studies
62-73-7 62-76-0 63-25-2 63-42-3 64-00-6 64-02-8 64-17-5,
Ethanol, biological studies 65-30-5 66-25-1, Hexanal 66-81-9
67-48-1 67-56-1, Methanol, biological studies 67-63-0, 2-Propanol,
biological studies 67-64-1, 2-Propanone, biological studies 67-66-3,
biological studies 67-68-5, biological studies 67-72-1 69-72-7,
biological studies 70-30-4 70-38-2 70-43-9 71-23-8, 1-Propanol,
biological studies 71-36-3, 1-Butanol, biological studies 71-55-6
71-58-9 71-63-6 72-20-8 72-43-5 72-54-8 72-55-9, biological
studies 74-82-8D, Methane, triaryl derivs. 74-83-9, biological studies
74-85-1, Ethene, biological studies 74-87-3, biological studies
74-88-4, biological studies 74-90-8, Hydrocyanic acid, biological
studies 74-96-4 74-98-6, Propane, biological studies 75-00-3
75-05-8, Acetonitrile, biological studies 75-07-0, Acetaldehyde,
biological studies 75-08-1, Ethanethiol 75-09-2, biological studies
75-15-0, Carbon disulfide, biological studies 75-20-7, Calcium carbide
(Ca(C2)) 75-21-8, Oxirane, biological studies 75-28-5 75-31-0,
2-Propanamine, biological studies 75-35-4, biological studies 75-37-6
75-43-4 75-45-6 75-52-5, biological studies 75-56-9, biological
studies 75-60-5 75-68-3 75-69-4 75-71-8 75-73-0 76-01-7
76-13-1 76-22-2 76-43-7 76-44-8 76-73-3 76-87-9 77-47-4
77-48-5 77-73-6 77-92-9D, copper complexes 77-98-5 78-21-7
78-34-2 78-40-0 78-48-8 78-53-5 78-57-9 78-70-6 78-78-4
78-83-1, biological studies 78-87-5 78-90-0D, 1,2-Propanediamine,
1-alkyl derivs., salts 78-92-2, 2-Butanol 78-93-3, 2-Butanone,
biological studies 79-00-5 79-01-6, biological studies 79-08-3
79-09-4, Propanoic acid, biological studies 79-10-7, 2-Propenoic acid,
biological studies 79-11-8, biological studies 79-21-0, Ethaneperoxoic

acid 79-24-3 79-31-2 79-43-6, biological studies 79-46-9
 80-05-7, biological studies 80-13-7 80-33-1 80-46-6 80-56-8
 80-57-9 80-62-6 80-71-7 81-81-2 81-82-3 81-84-5,
 1H,3H-Naphtho[1,8-cd]pyran-1,3-dione 81-88-9 82-66-6 82-68-8
 83-26-1 83-28-3 83-79-4 84-62-8 84-66-2 84-74-2 85-00-7
 85-34-7 85-68-7 85-86-9 85-97-2 86-50-0 86-85-1 86-86-2,
 1-Naphthaleneacetamide 86-87-3, 1-Naphthaleneacetic acid 87-17-2
 87-41-2, 1(3H)-Isobenzofuranone 87-44-5 87-47-8 87-51-4,
 1H-Indole-3-acetic acid, biological studies 87-86-5 87-90-1 88-04-0
 88-06-2 88-85-7 89-68-9 89-83-8 90-03-9 90-43-7,
 [1,1'-Biphenyl]-2-ol 91-44-1 91-64-5, 2H-1-Benzopyran-2-one 92-04-6
 93-71-0 93-76-5 93-76-5D, alkylamine salts 93-78-7 93-79-8
 93-80-1 94-13-3 94-26-8 94-43-9 94-59-7 94-62-2 94-75-7,
 biological studies 94-75-7D, alkylamine and alkanolamine salts 94-80-4
 95-06-7 95-14-7, 1H-Benzotriazole 95-48-7, biological studies
 95-50-1 95-57-8 95-95-4 96-12-8 96-29-7 97-11-0 97-17-6
 97-18-7 97-23-4 97-24-5 97-53-0 97-63-2 97-80-3 97-95-0
 97-99-4 98-01-1, 2-Furancarboxaldehyde, biological studies 98-09-9,
 Benzenesulfonyl chloride 98-11-3D, Benzenesulfonic acid, C10-13-alkyl
 derivs., sodium salts 98-11-3D, Benzenesulfonic acid, alkyl derivs.,
 potassium salts 98-11-3D, Benzenesulfonic acid, para-C9-13 alkyl
 derivs., sodium salts 98-50-0 98-54-4 98-82-8 98-86-2, biological
 studies

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(methods and comps. for increasing the efficacy of biol.-active
 ingredients such as antitumor agents)

IT 99-26-3 99-30-9 99-76-3 99-96-7, biological studies 100-00-5
 100-41-4, biological studies 100-44-7, biological studies 100-51-6,
 Benzenemethanol, biological studies 100-56-1 100-57-2 100-94-7D,
 acylamido alkyl derivs. 100-95-8 101-05-3 101-20-2 101-21-3
 101-42-8 101-81-5 101-84-8D, tetrapropylene derivs., sulfonated,
 sodium salts 102-07-8 102-30-7 102-71-6D, copper hydroxide complexes
 103-11-7 103-27-5 104-28-9 104-54-1 104-55-2 104-60-9 104-76-7
 105-67-9 106-22-9 106-23-0 106-24-1 106-44-5, biological studies
 106-46-7 106-48-9 106-88-7 106-93-4 106-96-7 106-97-8, Butane,
 biological studies 106-99-0, 1,3-Butadiene, biological studies
 107-04-0 107-06-2, biological studies 107-18-6, 2-Propen-1-ol,
 biological studies 107-19-7, 2-Propyn-1-ol 107-26-6 107-27-7
 107-31-3 107-49-3 107-64-2 108-05-4, Acetic acid ethenyl ester,
 biological studies 108-07-6 108-11-2 108-24-7 108-31-6,
 2,5-Furandione, biological studies 108-39-4, biological studies
 108-46-3, 1,3-Benzenediol, biological studies 108-80-5,
 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione 108-83-8 108-88-3, biological
 studies 108-90-7, biological studies 108-93-0, Cyclohexanol,
 biological studies 108-94-1, Cyclohexanone, biological studies
 108-95-2, Phenol, biological studies 109-62-6 109-66-0, Pentane,
 biological studies 109-69-3 109-76-2D, 1,3-Propanediamine,
 N-C12-18alkyl derivs. 109-76-2D, 1,3-Propanediamine, N-C15-18alkyl
 derivs., diacetate 109-76-2D, 1,3-Propanediamine, N-C6-18alkyl derivs.,
 acetate 109-76-2D, 1,3-Propanediamine, N-C6-18alkyl derivs., diacetate
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 7784-38-5 7784-40-9 7784-44-3 7784-46-5 7785-87-7 7785-88-8
 7786-30-3, Magnesium chloride (MgCl₂), biological studies 7786-34-7
 7786-80-3 7786-81-4 7789-00-6 7789-09-5 7789-12-0 7789-29-9,
 Potassium fluoride (K(HF₂)) 7789-38-0 7790-92-3, Hypochlorous acid
 7791-03-9 7791-18-6 7791-25-5, Sulfuryl chloride 7803-51-2,
 Phosphine 7803-63-6 8001-35-2, Toxaphene 8001-50-1, Strobane
 8003-06-3 8003-19-8D, derivs. 8004-87-3, C.I. Basic Violet 1
 8005-46-7 8011-63-0, Bordeaux mixture 8012-69-9 8013-17-0
 8015-35-8 8018-01-7 8022-00-2 8023-58-3, Sustane 3 8029-29-6,
 Bandane 8030-15-7, Turgasept 8030-53-3 8063-85-2 8064-49-1
 8065-36-9 8065-48-3 8066-01-1 8068-77-7 8070-76-6 8071-40-7
 8073-53-8 8075-57-8 8076-84-4 9000-07-1, Carrageenan 9000-28-6,
 Gum ghatti 9000-30-0, Guar gum 9000-40-2, Carob gum 9000-65-1, Gum
 tragacanth 9001-73-4, Papain 9002-86-2 9003-01-4 9003-05-8
 9003-11-6D, alkyl ethers, I₂ complexes 9003-18-3 9003-27-4
 9003-29-6 9004-32-4 9004-34-6, Cellulose, biological studies
 9004-57-3 9004-58-4 9004-62-0 9004-65-3 9004-67-5 9004-70-0
 9004-82-4 9005-25-8D, Starch, α-type, amycl, biological studies
 9005-38-3 9005-53-2, Lignin, biological studies 9006-42-2,
 Metiram 9010-77-9 9012-76-4, Chitosan 9015-68-3, Asparaginase
 9016-00-6, Poly[oxy(dimethylsilylene)] 9017-80-5 9038-29-3
 9080-17-5, Ammonium sulfide ((NH₄)₂(S_x)) 10007-85-9
 10022-31-8 10024-97-2, Nitrogen oxide (N₂O), biological studies
 10025-67-9, Sulfur chloride (S₂Cl₂) 10025-85-1, Nitrogen chloride (NCl₃)
 10028-15-6, Ozone, biological studies 10028-22-5 10028-24-7
 10034-85-2, Hydriodic acid 10039-54-0 10042-84-9 10043-01-3
 10043-35-3, Boric acid (H₃BO₃), biological studies 10043-52-4, Calcium
 chloride (CaCl₂), biological studies 10043-67-1 10045-86-0
 10045-89-3 10049-04-4, Chlorine oxide (ClO₂) 10058-23-8 10061-02-6
 10101-39-0 10101-41-4 10101-50-5 10101-97-0 10102-90-6
 10103-46-5 10103-48-7 10103-50-1 10108-64-2, Cadmium chloride
 (CdCl₂) 10112-91-1, Mercury chloride (Hg₂Cl₂) 10117-38-1 10124-36-4
 10124-41-1 10124-43-3 10124-50-2 10124-65-9 10125-13-0
 10137-74-3

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)

(methods and comps. for increasing the efficacy of biol.-active
 ingredients such as antitumor agents)

IT 10138-04-2 10213-78-2 10233-94-0 10248-55-2 10254-48-5
 10257-54-2 10265-92-6 10279-57-9 10290-12-7 10294-66-3
 10309-97-4 10311-84-9 10326-21-3 10326-24-6 10331-57-4
 10361-16-7 10361-37-2, Barium chloride (BaCl₂), biological studies
 10377-60-3 10380-28-6 10389-50-1 10402-15-0 10402-16-1
 10453-86-8 10486-00-7 10540-29-1 10545-99-0, Sulfur chloride (SCl₂)
 10548-10-4 10552-74-6 10555-76-7 10588-01-9 10605-10-4
 10605-11-5 10605-21-7 11006-34-1 11056-06-7, Bleomycin 11084-85-8,
 Sodium hypochlorite phosphate (Na₁₃(ClO)(PO₄)₄) 11096-18-7, Cufraneb

11096-42-7 11113-80-7, Polyoxin 11125-96-5 11126-29-7 11138-47-9
 11138-66-2, Xanthan gum 11141-17-6 12001-20-6 12002-03-8, C.I.
 Pigment Green 21 12002-48-1 12002-53-8 12007-92-0, Boron sodium
 oxide (B5NaO8) 12008-41-2, Boron sodium oxide (B8Na2O13) 12018-01-8,
 Chromium oxide (CrO2) 12040-72-1 12057-74-8, Magnesium phosphide
 (Mg3P2) 12062-24-7 12068-06-3 12068-08-5 12068-09-6 12068-12-1
 12068-15-4 12068-16-5 12071-83-9 12122-67-7 12124-97-9,
Ammonium bromide ((NH4)Br) 12125-02-9,
Ammonium chloride ((NH4)Cl), biological studies
 12158-97-3, Copper oxide sulfate (Cu3O2(SO4)) 12168-20-6, Copper iron
 hydroxide sulfate (CuFe(OH)2(SO4)) 12179-04-3 12219-26-0, C.I. Acid
 Blue 182 12276-01-6 12280-03-4 12298-68-9, Potassium iodide (K(I3))
 12328-56-2 12379-42-9 12379-51-0 12379-54-3 12379-66-7
 12407-86-2 12427-38-2 12447-61-9 12616-49-8, Plurafac C 17
 12645-53-3 12680-48-7, Chromium sodium oxide 12701-72-3 12770-24-0,
 Toximul-P 12771-68-5 12789-03-6, Chlordane 13010-20-3 13010-47-4
 13067-93-1 13071-79-9 13114-87-9 13121-70-5 13171-21-6
 13194-48-4 13302-00-6 13311-84-7 13331-52-7 13333-87-4
 13347-42-7 13356-08-6 13358-11-7 13360-45-7 13387-91-2
 13410-01-0 13426-91-0 13429-27-1 13445-49-3, Peroxydisulfuric acid
 ([(HO)S(O)2]2O2) 13446-48-5 13452-77-2 13455-24-8 13457-18-6
 13463-41-7 13463-67-7, Titanium oxide (TiO2), biological studies
 13464-33-0 13464-38-5 13464-42-1 13464-44-3 13477-36-6
 13492-26-7 13560-99-1 13586-82-8 13593-03-8 13593-08-3
 13598-36-2, Phosphonic acid, biological studies 13684-44-1 13684-56-5
 13684-63-4 13701-59-2 13707-65-8 13780-06-8 13824-96-9
 13826-35-2 13840-33-0 13845-36-8 13863-41-7, Bromine chloride (BrCl)
 13864-38-5 13909-09-6 13932-13-3 13952-84-6, 2-Butanamine
 13977-65-6 13978-85-3 14024-55-6 14025-15-1 14025-21-9
 14047-23-5 14089-43-1 14099-38-8 14214-32-5 14215-52-2
 14265-44-2, Phosphate, biological studies 14275-57-1 14332-21-9,
 Hypoiodous acid 14351-44-1 14354-56-4 14357-82-5 14437-17-3
 14437-20-8 14455-29-9 14484-64-1 14491-59-9 14697-50-8
 14701-21-4, biological studies 14807-96-6, Talc (Mg3H2(SiO3)4),
 biological studies 14808-60-7, Quartz (SiO2), biological studies
 14816-16-1 14816-18-3 14816-20-7 14979-39-6 15096-52-3, Cryolite
 (Na3(AlF6)) 15263-52-2 15263-53-3 15275-07-7 15299-99-7
 15302-91-7 15310-01-7 15337-60-7 15339-36-3 15415-64-2
 15537-82-3 15545-48-9 15595-24-1 15652-38-7 15662-33-6
 15663-27-1 15733-22-9 15773-35-0 15905-32-5 15972-60-8
 16013-44-8 16039-52-4 16079-88-2 16102-92-4 16227-10-4
 16228-00-5 16423-68-0 16509-79-8 16655-82-6 16672-87-0
 16676-96-3 16709-30-1 16725-53-4 16751-55-6 16752-77-5
 16828-95-8 16871-71-9 16893-85-9 16919-19-0 16940-66-2
 16949-65-8 16974-11-1 16974-12-2 17029-22-0 17040-19-6
 17080-02-3 17109-49-8 17125-80-3 17210-55-8 17356-42-2
 17367-56-5 17375-41-6 17439-94-0 17466-29-4 17496-08-1
 17572-97-3 17606-31-4 17699-14-8 17702-57-7 17804-35-2
 18128-16-0 18128-17-1 18130-44-4 18181-70-9 18249-20-2
 18357-78-3 18378-89-7 18467-88-4

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)

(methods and compns. for increasing the efficacy of biol.-active
 ingredients such as antitumor agents)

IT 18472-87-2 18479-55-5 18530-56-8 18691-97-9 18748-91-9
 18794-84-8 18854-01-8 18883-66-4 19044-88-3 19379-90-9
 19398-13-1 19480-43-4 19622-08-3 19622-19-6 19651-91-3
 19660-77-6 19691-80-6 19766-89-3 19937-59-8 20276-83-9
 20290-99-7 20427-58-1, Zinc hydroxide (Zn(OH)2) 20427-59-2, Copper
 hydroxide (Cu(OH)2) 20543-04-8 20711-10-8 20762-60-1, Potassium

azide (K(N3)) 20782-58-5 20830-81-3 20859-73-8, Aluminum phosphide (AlP) 20940-37-8 21087-64-9 21267-72-1 21351-39-3 21452-18-6 21540-35-2 21548-32-3 21564-17-0 21609-90-5 21645-51-2, Aluminum hydroxide (Al(OH)3), biological studies 21652-27-7 21689-84-9 21725-46-2 21832-25-7 21908-53-2, Mercury oxide (HgO) 21921-96-0 21923-23-9 22205-45-4, Copper sulfide (Cu2S) 22212-55-1 22212-56-2 22221-10-9 22221-12-1 22221-14-3 22224-92-6 22232-15-1 22232-20-8 22232-26-4 22232-28-6 22248-79-9 22259-30-9 22323-45-1 22330-14-9 22439-40-3 22569-74-0 22781-23-3 22894-47-9 22898-01-7 22936-75-0 22936-86-3 23031-36-9 23103-98-2 23121-99-5 23135-22-0 23184-66-9 23214-92-8 23319-66-6, biological studies 23422-53-9 23505-41-1 23526-02-5 23560-59-0 23564-05-8 23564-06-9 23710-76-1 23947-60-6 23950-58-5 23950-58-5D, metabolites 24017-47-8 24124-25-2 24151-93-7 24307-26-4 24310-40-5 24310-41-6 24353-58-0 24353-61-5 24556-64-7 24556-65-8 24579-73-5 24691-76-7 24691-80-3 24927-67-1 24934-91-6 25013-16-5 25035-26-1 25059-78-3 25085-34-1 25086-29-7 25154-52-3 25155-30-0 25167-82-2 25167-83-3 25167-83-3D, alkylamine salt 25167-83-3D, coco-amine salt 25168-06-3 25168-15-4 25168-26-7 25171-63-5 25182-03-0 25254-50-6 25311-71-1 25316-56-7 25322-20-7 **25322-68-3D**, C10-C14 alkyl ethers, phosphates **25322-68-3D**, alkyl ethers 25339-17-7, Isodecanol 25366-23-8 25402-06-6 25550-58-7 25567-55-9 25568-84-7 25606-41-1 25655-41-8 25671-46-9 25956-17-6 26002-80-2 26027-38-3 26062-79-3 26087-47-8 26129-32-8 26172-55-4 26248-24-8 26259-45-0 26264-05-1 26354-18-7 26389-78-6 26399-36-0 26419-73-8 26530-09-6 26530-20-1 26532-22-9 26532-23-0 26532-24-1 26532-25-2 26545-53-9 26617-87-8D, C10-18 alkyl derivs. 26617-87-8D, C12-15 alkyl derivs. 26617-87-8D, alkyl derivs. 26628-22-8, Sodium azide (Na(N3)) 26648-01-1 26761-40-0 26836-07-7 26856-61-1 26896-20-8, Neodecanoic acid 26952-20-5 27041-82-3 27041-84-5 **27176-87-0** 27177-77-1 27193-28-8 27193-86-8 27236-65-3 27252-87-5 27253-29-8 27304-13-8 27306-78-1 27323-41-7 27386-64-7 27458-93-1, Isooctadecanol 27519-02-4 27541-88-4 27554-26-3 27605-76-1 27636-20-0D, acetalized 27668-52-6 27923-56-4 27954-37-6 27987-00-4 28079-04-1 28086-13-7 28159-98-0 28217-97-2 28249-77-6 28300-74-5 28382-15-2 28401-39-0 28434-00-6 28434-01-7 28558-32-9 28559-00-4 28675-11-8 28730-17-8 28772-56-7 28801-69-6 28805-78-9 28837-97-0 28855-27-8 28956-64-1 29012-39-3D, derivs. 29061-61-8 29082-74-4 29091-05-2 29091-21-2 29173-31-7 29232-93-7 29385-43-1 29450-57-5 29457-72-5 29672-19-3 29804-22-6 29868-16-4 29871-13-4 29932-85-2 29973-13-5 30043-49-3 30043-55-1 30087-47-9 30136-13-1 30143-22-7 30284-78-7 30304-30-4 30507-70-1 30525-89-4, Paraformaldehyde 30551-20-3, Dodecadienal 30560-19-1 30622-37-8 30820-22-5 30864-28-9 30894-16-7

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT 30979-48-7 30981-48-7 31089-39-1 31218-83-4 31251-03-3 31291-59-5 31366-95-7 31366-97-9 31393-98-3 31441-78-8, Purinethiol 31502-19-9 31512-74-0 31632-68-5 31848-11-0 31895-21-3 31895-22-4 31972-43-7 31972-44-8 32289-58-0 32345-29-2 32357-46-3 32407-99-1 32426-10-1 32426-11-2 32534-66-0 32581-06-9 32771-64-5 32861-85-1 32889-48-8 **33113-08-5** 33189-72-9 33213-65-9 33245-39-5 33271-65-7 33419-42-0 33439-45-1 33629-47-9 33693-04-8 33820-53-0

33956-49-9	34010-15-6	34010-21-4	34014-18-1	34123-59-6
34205-21-5	34256-82-1	34264-24-9	34363-01-4	34465-46-8
34484-77-0	34490-93-2	34622-58-7	34643-46-4	34681-10-2
34681-23-7	34689-46-8	34828-64-3D, esters with coconut oil		
34849-42-8	34870-92-3D, alkylaryl derivs.		35040-03-0	35045-02-4
35065-12-4	35109-57-0	35148-19-7	35153-15-2	35153-18-5
35210-54-9	35237-62-8	35256-86-1	35285-69-9	35367-31-8
35367-38-5	35368-77-5	35400-43-2	35471-38-6	35471-43-3
35471-49-9	35513-93-0D, N-C6-18alkyl derivs.		35535-81-0	35554-44-0
35575-96-3	35585-58-1	35597-43-4	35764-59-1	35832-11-2
35857-62-6	35898-62-5	36001-88-4	36145-08-1	36335-67-8
36378-61-7	36519-00-3	36530-23-1	36576-42-8	36576-43-9
36614-38-7	36653-82-4, 1-Hexadecanol		36734-19-7	36756-79-3
37032-15-8	37102-63-9	37199-66-9, Potassium sulfide (K2(Sx))		
37199-81-8	37222-66-5, Potassium peroxymonosulfate sulfate			
(K5[HSO3(O2)]2(HSO4)(SO4))		37300-16-6, Versalon	1112	37304-88-4
37324-38-2	37324-45-1	37332-64-2	37338-40-2	37452-11-2
37574-18-8	37764-25-3	37893-02-0	37894-46-5	37924-13-3
37954-66-8	38260-54-7	38363-29-0	38421-90-8	38527-90-1
38641-94-0	38727-55-8	39148-24-8	39196-18-4	39247-96-6
39290-85-2	39300-45-3	39342-50-2, Citowett		39377-44-1 39384-60-6
39515-40-7	39515-41-8	39603-48-0	39765-80-5	39807-15-3
39856-16-1	40167-95-1	40465-66-5	40487-42-1	40642-40-8
40642-43-1	40709-04-4	40843-25-2	41083-11-8	41096-46-2
41198-08-7	41289-08-1	41295-28-7	41394-05-2	41481-51-0
41483-43-6	41495-67-4	41575-94-4	41710-20-7	41814-78-2
42089-03-2	42509-80-8	42509-83-1	42534-61-2	42576-02-3
42609-52-9	42609-73-4	42721-99-3	42822-86-6	42835-25-6
42874-03-3	43043-77-2	43121-43-3	45298-90-6	50315-14-5
50376-91-5	50471-44-8	50512-35-1	50563-36-5	50594-66-6
50594-67-7	50642-14-3, Validamycin		50767-79-8	50863-22-4
50864-67-0,	Barium sulfide (Ba(Sx))		50933-33-0	51026-28-9 51068-60-1
51218-45-2	51218-49-6	51235-04-2	51276-47-2	51308-54-4
51338-27-3	51487-69-5	51543-98-7	51580-86-0	51607-94-4
51609-41-7	51630-58-1	51707-55-2	51796-19-1	51811-79-1
51954-76-8	51971-67-6	52207-99-5	52236-29-0	52236-30-3
52315-07-8	52316-55-9	52508-35-7	52570-16-8	52645-53-1
52704-98-0	52756-22-6	52756-25-9	52820-00-5	52888-80-9
52918-63-5	53042-79-8	53044-06-7	53112-28-0	53120-26-6
53120-27-7	53403-98-8	53404-00-5	53404-04-9	53404-05-0
53404-16-3	53404-18-5	53404-19-6	53404-20-9	53404-21-0
53404-24-3	53404-28-7	53404-29-8	53404-30-1	53404-31-2
53404-36-7	53404-37-8			

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(methods and compns. for increasing the efficacy of biol.-active ingredients such as antitumor agents)

IT	53404-40-3	53404-43-6	53404-45-8	53404-46-9	53404-47-0
	53404-49-2	53404-52-7	53404-53-8	53404-54-9	53404-55-0
	53404-57-2	53404-58-3	53404-59-4	53404-67-4	53404-68-5
	53404-69-6	53404-70-9	53404-71-0	53404-72-1	53404-77-6
	53404-81-2	53404-82-3	53404-83-4	53404-84-5	53404-86-7
	53404-87-8	53404-88-9	53404-89-0	53404-92-5	53404-93-6
	53433-01-5	53433-02-6	53466-66-3	53466-87-8	53466-90-3
	53466-93-6	53466-95-8	53466-98-1	53467-01-9	53494-70-5
	53535-27-6	53535-32-3	53535-37-8	53537-62-5	53537-63-6
	53637-60-8,	Plurafac B 26	53663-71-1	53714-56-0	53780-34-0
	53780-36-2	53819-72-0	53908-27-3	53910-25-1	53939-27-8
	53939-28-9	53988-06-0	53988-93-5	54364-62-4	54453-03-1
	54593-83-8	54774-45-7	54844-65-4	54864-61-8	55069-68-6

55072-57-6, Copper zinc hydroxide sulfate 55179-31-2 55195-26-1
 55219-65-3 55256-33-2 55283-68-6 55285-14-8 55335-06-3
 55406-53-6 55634-91-8 55635-13-7 55684-94-1 55701-05-8
 55802-63-6, Zinc hydroxide sulfate 55807-46-0 55814-41-0 55861-78-4
 55871-01-7 55871-02-8 55965-84-9 55965-87-2 56070-16-7
 56073-07-5 56073-10-0 56141-00-5 56218-79-2 56219-04-6
 56320-22-0, Arsenic sulfide (AsS2) 56425-91-3 56507-37-0 56573-85-4,
 Tin-San 56578-18-8 56634-95-8 56681-55-1 56683-54-6 56717-11-4
 56750-76-6 56797-40-1 56855-08-4D, N-C12-14 alkyl, chloride
 57018-04-9 57052-04-7 57063-29-3 57130-91-3 57213-69-1
 57249-19-1 57369-32-1 57373-19-0 57373-20-3 57375-63-0
 57455-37-5, C.I. Pigment Blue 29 57646-30-7 57754-85-5 57837-19-1
 57866-49-6 57966-95-7 57981-60-9 58001-44-8 58011-68-0
 58175-59-0 58175-60-3 58594-45-9 58594-72-2 58594-74-4
 58667-63-3 58810-48-3 58829-95-1 59010-86-5 59014-03-8
 59026-08-3 59401-04-6 59644-67-6, Sterox NJ 59669-26-0 59915-53-6
 60018-97-5 60037-58-3 60074-25-1 60168-88-9 60207-31-0
 60207-90-1 60207-93-4 60238-56-4 60569-74-6, Daxad 23 60742-37-2
 60816-37-7 60825-27-6 60840-85-9 60864-33-7 61019-78-1
 61167-10-0 61228-92-0 61432-55-1 61566-21-0 61614-62-8
 61676-87-7 61827-83-6 61827-84-7 62031-70-3, Wingstay V 62046-37-1
 62449-69-8 62476-59-9 62732-91-6 62850-32-2 62865-36-5
 62924-70-3 63100-33-4, Triton X 363 63284-71-9 63517-71-5
 63517-72-6 63729-98-6 63744-60-5 63782-90-1 63798-77-6, Panasol AN
 2 63837-33-2 63935-38-6 63992-41-6 64249-01-0 64359-80-4
 64359-81-5 64491-92-5 64628-44-0 64700-56-7 64726-91-6
 64902-72-3 65128-96-3 65271-80-9 65277-42-1 65666-57-1, Astrazon
 Yellow 65731-84-2 65733-18-8 65863-15-2, Alkanol XC 65907-30-4
 65934-95-4 65954-19-0 66063-05-6 66159-95-3 66215-27-8
 66227-09-6 66230-04-4 66246-88-6 66267-77-4 66332-96-5
 66348-55-8 66441-11-0 66441-23-4 66841-24-5 66841-25-6
 66952-49-6 67053-55-8, Toximul D 67129-08-2 67233-85-6 67306-00-7
 67375-30-8 67446-07-5 67564-91-4 67674-67-3 67747-09-5
 67923-62-0 67989-88-2 67992-60-3 68084-55-9 68085-85-8
 68157-60-8 68214-43-7 68228-18-2 68228-19-3 68228-20-6
 68240-09-5 68359-37-5 68505-69-1 68610-00-4 68694-11-1
 68813-94-5

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)

(methods and compns. for increasing the efficacy of biol.-active
 ingredients such as antitumor agents)

IT 68814-04-0, C.I. Pigment Yellow 115 68921-42-6 68957-70-0
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 69632-93-5 69632-97-9 69632-98-0 69633-04-1 69653-69-6
 69770-45-2 69806-34-4 69806-40-2 69806-50-4 69820-27-5
 70024-53-2 70124-77-5 70193-21-4 70217-36-6 70393-85-0
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 IP 72178-02-0 72269-48-8 72348-92-6 72459-58-6 72490-01-8
 72598-35-7 72850-64-7 72915-82-3 72963-72-5 73250-68-7
 73394-27-1 73468-21-0, Atplus 300F 73519-50-3 73886-28-9
 73989-17-0, Avermectin 74051-80-2 74070-46-5 74222-97-2 74223-56-6
 74223-64-6 74712-19-9 74738-17-3 74782-23-3 75497-92-6
 75736-33-3 75747-77-2 76120-02-0 76397-81-4 76416-93-8, Tenneco
 500-100 76578-12-6 76578-14-8 76608-88-3 76674-21-0 76738-62-0
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 83542-69-2 83542-80-7 83542-83-0 83601-83-6 83657-22-1
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 sodium salt, complex with iodine 84082-88-2 84082-93-9 84332-86-5
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 96491-05-3 96525-23-4 96949-21-2, Rhamsan gum 97780-06-8
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RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)

(methods and compns. for increasing the efficacy of biol.-active
 ingredients such as antitumor agents)

IT 112281-77-3 112410-23-8 112636-83-6 112839-32-4 112839-33-5
 113036-88-7 113614-08-7 114311-32-9 114369-43-6 114370-14-8
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 Silver sodium zirconium phosphate ($\text{Ag}_{0.18}\text{Na}_{0.57}\text{Zr}_2(\text{PO}_4)_3$) 856011-68-2D,
 alkyl ethers, nickel sulfate complexes 856668-65-0 857198-51-7
 862271-76-9

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)

(methods and compns. for increasing the efficacy of biol.-active
 ingredients such as antitumor agents)

IT 219918-66-8, Daphne (repellant)

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)

(oil; methods and compns. for increasing the efficacy of biol.-active
 ingredients such as antitumor agents)

IT 9002-88-4

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)

(oxidized; methods and compns. for increasing the efficacy of
 biol.-active ingredients such as antitumor agents)

IT 11121-88-3, Versamid

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)

(resin binder; methods and compns. for increasing the efficacy of
 biol.-active ingredients such as antitumor agents)

IT 1406-05-9, Penicillin

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)

(semisynthetic; methods and compns. for increasing the efficacy of
 biol.-active ingredients such as antitumor agents)

IT 1400-61-9, Nystatin

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)

(streptomyces noursei; methods and compns. for increasing the efficacy
 of biol.-active ingredients such as antitumor agents)

IT 8062-15-5, Lignosulfonic acid

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)

(zinc, manganese, iron salts; methods and compns. for increasing the
 efficacy of biol.-active ingredients such as antitumor agents)

IT **50-70-4**, D-Glucitol, biological studies **50-99-7**,

D-Glucose, biological studies **506-87-6 1066-33-7**

1071-83-6 9003-11-6D, alkyl ethers, I₂ complexes

9005-53-2, Lignin, biological studies **25322-68-3D**,

C10-C14 alkyl ethers, phosphates **27176-87-0 33113-08-5**

38641-94-0 40465-66-5 69254-40-6

70393-85-0 114370-14-8 691397-13-4

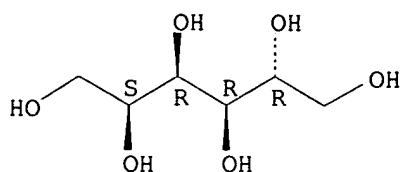
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)

(methods and compns. for increasing the efficacy of biol.-active
 ingredients such as antitumor agents)

RN 50-70-4 HCAPLUS

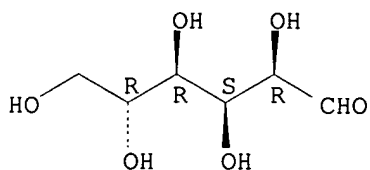
CN D-Glucitol (9CI) (CA INDEX NAME)

Absolute stereochemistry.

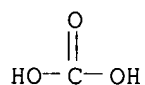


RN 50-99-7 HCAPLUS
 CN D-Glucose (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

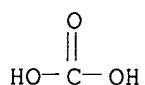


RN 506-87-6 HCAPLUS
 CN Carbonic acid, diammonium salt (8CI, 9CI) (CA INDEX NAME)



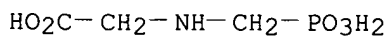
● 2 NH₃

RN 1066-33-7 HCAPLUS
 CN Carbonic acid, monoammonium salt (8CI, 9CI) (CA INDEX NAME)



● NH₃

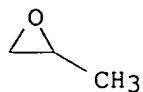
RN 1071-83-6 HCAPLUS
 CN Glycine, N-(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 9003-11-6 HCAPLUS
 CN Oxirane, methyl-, polymer with oxirane (9CI) (CA INDEX NAME)

CM 1

CRN 75-56-9
CMF C3 H6 O



CM 2

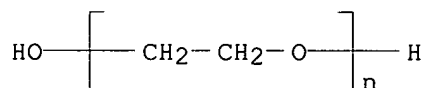
CRN 75-21-8
CMF C2 H4 O



RN 9005-53-2 HCAPLUS
CN Lignin (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 25322-68-3 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- (9CI) (CA INDEX NAME)



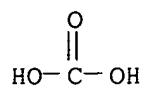
RN 27176-87-0 HCAPLUS
CN Benzenesulfonic acid, dodecyl- (8CI, 9CI) (CA INDEX NAME)



D1-SO₃H

Me-(CH₂)₁₁-D1

RN 33113-08-5 HCAPLUS
CN Carbonic acid, ammonium copper salt (8CI, 9CI) (CA INDEX NAME)



●x Cu(x)

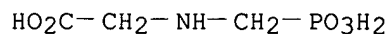
●x NH₃

RN 38641-94-0 HCAPLUS
CN Glycine, N-(phosphonomethyl)-, compd. with 2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 1071-83-6

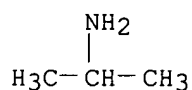
CMF C3 H8 N O5 P



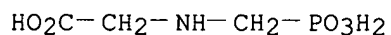
CM 2

CRN 75-31-0

CMF C3 H9 N

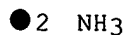
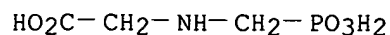


RN 40465-66-5 HCAPLUS
CN Glycine, N-(phosphonomethyl)-, monoammonium salt (9CI) (CA INDEX NAME)



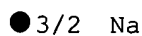
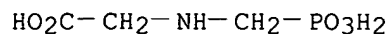
● NH₃

RN 69254-40-6 HCAPLUS
CN Glycine, N-(phosphonomethyl)-, diammonium salt (9CI) (CA INDEX NAME)



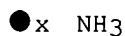
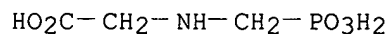
RN 70393-85-0 HCAPLUS

CN Glycine, N-(phosphonomethyl)-, sodium salt (2:3) (9CI) (CA INDEX NAME)



RN 114370-14-8 HCAPLUS

CN Glycine, N-(phosphonomethyl)-, ammonium salt (9CI) (CA INDEX NAME)



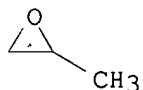
RN 691397-13-4 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, triblock (9CI) (CA INDEX NAME)

CM 1

CRN 75-56-9

CMF C3 H6 O



CM 2

CRN 75-21-8

CMF C2 H4 O



L79 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:140429 HCAPLUS

DN 142:221611
 ED Entered STN: 18 Feb 2005
 TI Process for purifying **glyphosate** solutions by nanofiltration
 IN **Vigil, Jorge Gustavo**; Parrotino, Salvador Luis; Lembo, Marcelo
 Adrian
 PA Argent.
 SO U.S. Pat. Appl. Publ., 4 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 IC ICM B01D061-00
 INCL 210639000; 210651000; 210653000; 210805000
 CC 45-4 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005035060	A1	20050217	US 2003-743465	20031223
	BR 2003005587	A	20050517	BR 2003-5587	20031111
PRAI	AR 2003-101119	A	20030328		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2005035060	ICM	B01D061-00
	INCL	210639000; 210651000; 210653000; 210805000
US 2005035060	NCL	210/639.000

AB A process to purify **glyphosate** solns. (N-phosphonomethylglycine) originated from **glyphosate** synthesis by oxidation of N-phosphonomethyliminodiacetic acid and containing formaldehyde and formic acid as main impurities, comprising the steps of: providing an initial solution of **glyphosate** with a **glyphosate** concentration 0.1-3% w/v, a formaldehyde concentration 0.5-1% w/v, and a formic acid concentration 0.1-0.6% w/v; adjusting the pH of the the initial

glyphosate solution to a value 2.5-3.5 with a base selected from alkylamine, **ammonium** hydroxide, sodium, or potassium hydroxide; submitting the solution to nanofiltration, at a temperature 10-35° and a pressure 25-35 kg/cm²; carrying out the nanofiltration through at least one nanofiltration membrane; recovering the concentrated **glyphosate** solution; and discarding the permeate solution

ST process purifying **glyphosate** soln nanofiltration

IT Filters

(nanofilters; process for purifying **glyphosate** solns. by nanofiltration)

IT Filtration

Membrane filters

(nanofiltration; process for purifying **glyphosate** solns. by nanofiltration)

IT 50-00-0, Formaldehyde, processes 64-18-6, Formic acid, processes

RL: REM (Removal or disposal); PROC (Process)

(impurities; process for purifying **glyphosate** solns. by nanofiltration)

IT 75-31-0, Monoisopropylamine, uses 1310-58-3, Potassium hydroxide, uses 1310-73-2, Sodium hydroxide, uses 1336-21-6, **Ammonium** hydroxide

RL: NUU (Other use, unclassified); USES (Uses)

(process for purifying **glyphosate** solns. by nanofiltration)

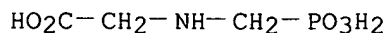
IT 1071-83-6P, **Glyphosate**

RL: PUR (Purification or recovery); PREP (Preparation)

(process for purifying **glyphosate** solns. by nanofiltration)

IT 5994-61-6, N-Phosphonomethyliminodiacetic acid

RL: RCT (Reactant); RACT (Reactant or reagent)
 (process for purifying **glyphosate** solns. by nanofiltration)
 IT 1071-83-6P, **Glyphosate**
 RL: PUR (Purification or recovery); PREP (Preparation)
 (process for purifying **glyphosate** solns. by nanofiltration)
 RN 1071-83-6 HCAPLUS
 CN Glycine, N-(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)



L79 ANSWER 5 OF 17 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:430601 HCAPLUS
 DN 140:401765
 ED Entered STN: 27 May 2004
 TI Solid herbicidal **glyphosate** formulation
 IN Vigil, Jorge Gustavo; Ruiz, Martha Maria Del Carmen;
 Anacabe, Dante Omar
 PA Argent.
 SO U.S. Pat. Appl. Publ., 5 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 IC ICM A01N057-18
 ICS A01N025-12
 INCL 504206000; 504367000
 CC 5-3 (Agrochemical Bioregulators)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004102323	A1	20040527	US 2003-714870	20031118 <--
	BR 2003004086	A	20050607	BR 2003-4086	20031031 <--
PRAI	AR 2002-104441	A	20021119	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004102323	ICM	A01N057-18
	ICS	A01N025-12
	INCL	504206000; 504367000
US 2004102323	NCL	504/206.000
	ECLA	A01N057/20+M

AB A solid herbicidal formulation of **glyphosate** is described, in powder, granule, or flake form, soluble or dispersible in water, containing **glyphosate** in the form of hydrosol. salt and also including 5-30% weight % of one or more surfactants, soluble in water, compatible with **glyphosate** and which are solid at ambient temperature, i.e. at approx. 25°.

ST solid herbicide **glyphosate** formulation

IT Amides, uses

RL: MOA (Modifier or additive use); USES (Uses)
 (N-(hydroxyalkyl); solid herbicidal **glyphosate** formulation containing)

IT Phenols, uses

RL: MOA (Modifier or additive use); USES (Uses)
 (alkyl, ethoxylated; solid herbicidal **glyphosate** formulation containing)

IT Alcohols, uses

RL: MOA (Modifier or additive use); USES (Uses)

(carboxylated and sulfated; solid herbicidal **glyphosate** formulation containing)

IT Carbohydrates, uses
Lecithins
 RL: MOA (Modifier or additive use); USES (Uses)
 (derivs.; solid herbicidal **glyphosate** formulation containing)

IT Sulfonic acids, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (esters, alkyl and aryl; solid herbicidal **glyphosate** formulation containing)

IT **Phosphates, uses**
 RL: MOA (Modifier or additive use); USES (Uses)
 (esters; solid herbicidal **glyphosate** formulation containing)

IT **Alcohols, uses**
Fatty acids, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (ethoxylated; solid herbicidal **glyphosate** formulation containing)

IT **Polyoxyalkylenes, uses**
 RL: MOA (Modifier or additive use); USES (Uses)
 (fatty acid esters; solid herbicidal **glyphosate** formulation containing)

IT Herbicides
 Pesticide formulations
 (solid herbicidal **glyphosate** formulation)

IT Surfactants
 (solid herbicidal **glyphosate** formulation containing)

IT **Polyoxyalkylenes, uses**
 RL: MOA (Modifier or additive use); USES (Uses)
 (solid herbicidal **glyphosate** formulation containing)

IT **Fatty acids, uses**
 RL: MOA (Modifier or additive use); USES (Uses)
 (sulfates; solid herbicidal **glyphosate** formulation containing)

IT **577-11-7, Sodium dioctylsulfosuccinate**
 RL: MOA (Modifier or additive use); USES (Uses)
 (Geropon SDS; solid herbicidal **glyphosate** formulation containing)

IT **9004-99-3, Myrj 49P**
 RL: MOA (Modifier or additive use); USES (Uses)
 (Myrj 49P; solid herbicidal **glyphosate** formulation containing)

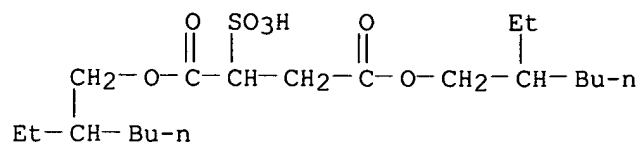
IT **1071-83-6, Glyphosate 34494-03-6,**
Glyphosate monosodium salt 39600-42-5,
Glyphosate monopotassium salt 40465-66-5,
Glyphosate monoammonium salt
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (solid herbicidal **glyphosate** formulation)

IT **50-70-4D, Sorbitol, derivs. 50-99-7D, Glucose, derivs.**
81-24-3, Taurocholic acid 137-20-2, Geropon T-77
504-75-6, Imidazoline 504-75-6D, Imidazoline, derivs.
1330-69-4, Dodecylbenzene sulfonate 9005-53-2, Lignin,
uses 9005-53-2D, Lignin, derivs. 25322-68-3D, fatty
acid esters 50852-11-4, Naphthalene sulfonate
50852-11-4D, Naphthalene sulfonate, alkyl derivs.
106392-12-5, Ethylene oxide-propylene oxide block copolymer
113032-51-2, Tridecylbenzene sulfonate 690635-07-5,
Atplus UCL 1007.
 RL: MOA (Modifier or additive use); USES (Uses)
 (solid herbicidal **glyphosate** formulation containing)

IT **577-11-7, Sodium dioctylsulfosuccinate**
 RL: MOA (Modifier or additive use); USES (Uses)
 (Geropon SDS; solid herbicidal **glyphosate** formulation containing)

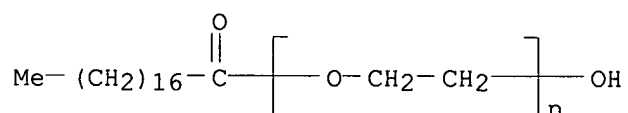
RN **577-11-7 HCAPLUS**

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI)
(CA INDEX NAME)

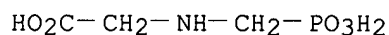


● Na

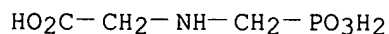
IT 9004-99-3, Myrj 49P
RL: MOA (Modifier or additive use); USES (Uses)
(Myrj 49P; solid herbicidal **glyphosate** formulation containing)
RN 9004-99-3 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α -(1-oxooctadecyl)- ω -hydroxy- (9CI)
(CA INDEX NAME)



IT 1071-83-6, **Glyphosate** 34494-03-6,
Glyphosate monosodium salt 39600-42-5,
Glyphosate monopotassium salt 40465-66-5,
Glyphosate monoammonium salt
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(solid herbicidal **glyphosate** formulation)
RN 1071-83-6 HCAPLUS
CN Glycine, N-(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)

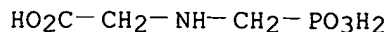


RN 34494-03-6 HCAPLUS
CN Glycine, N-(phosphonomethyl)-, monosodium salt (9CI) (CA INDEX NAME)



● Na

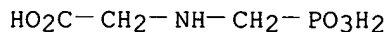
RN 39600-42-5 HCAPLUS
CN Glycine, N-(phosphonomethyl)-, monopotassium salt (9CI) (CA INDEX NAME)



● K

RN 40465-66-5 HCAPLUS

CN Glycine, N-(phosphonomethyl)-, monoammonium salt (9CI) (CA INDEX NAME)



● NH₃

IT 50-70-4D, Sorbitol, derivs. 50-99-7D, Glucose, derivs.

81-24-3, Taurocholic acid 504-75-6, Imidazoline

504-75-6D, Imidazoline, derivs. 1330-69-4,

Dodecylbenzene sulfonate 9005-53-2, Lignin, uses

9005-53-2D, Lignin, derivs. 25322-68-3D, fatty acid

esters 50852-11-4, Naphthalene sulfonate 50852-11-4D,

Naphthalene sulfonate, alkyl derivs. 106392-12-5, Ethylene

oxide-propylene oxide block copolymer 113032-51-2,

Tridecylbenzene sulfonate 690635-07-5, Atplus UCL 1007

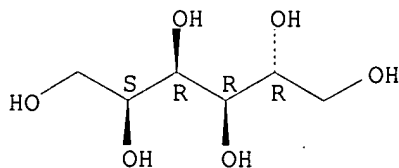
RL: MOA (Modifier or additive use); USES (Uses)

(solid herbicidal **glyphosate** formulation containing)

RN 50-70-4 HCAPLUS

CN D-Glucitol (9CI) (CA INDEX NAME)

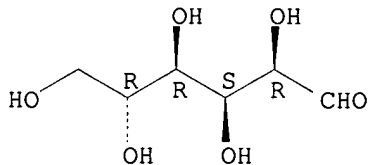
Absolute stereochemistry.



RN 50-99-7 HCAPLUS

CN D-Glucose (8CI, 9CI) (CA INDEX NAME)

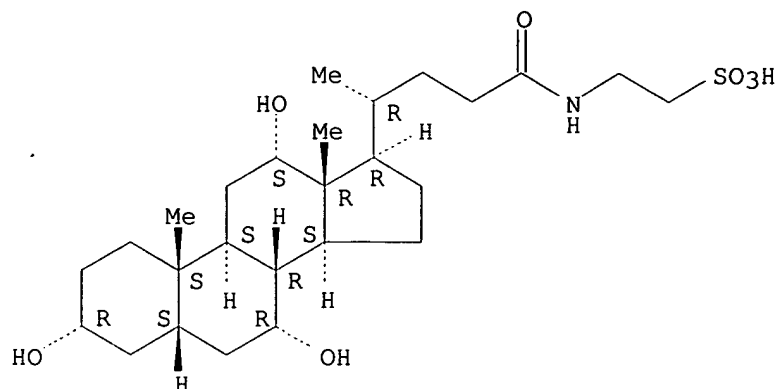
Absolute stereochemistry.



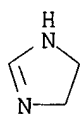
RN 81-24-3 HCAPLUS

CN Ethanesulfonic acid, 2-[[[(3 α ,5 β ,7 α ,12 α)-3,7,12-trihydroxy-24-oxocholan-24-yl]amino]- (9CI) (CA INDEX NAME)

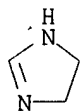
Absolute stereochemistry.



RN 504-75-6 HCAPLUS
CN 1H-Imidazole, 4,5-dihydro- (9CI) (CA INDEX NAME)



RN 504-75-6 HCAPLUS
CN 1H-Imidazole, 4,5-dihydro- (9CI) (CA INDEX NAME)



RN 1330-69-4 HCAPLUS
CN Benzenesulfonic acid, dodecyl-, ion(1-) (8CI, 9CI) (CA INDEX NAME)



D1-SO₃⁻

Me⁻ (CH₂)₁₁-D1

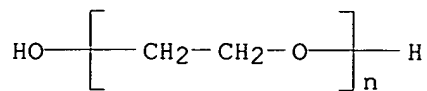
RN 9005-53-2 HCAPLUS
CN Lignin (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

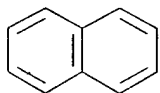
RN 9005-53-2 HCAPLUS
 CN Lignin (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 25322-68-3 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- (9CI) (CA INDEX NAME)

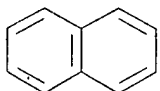


RN 50852-11-4 HCAPLUS
 CN Naphthalenesulfonic acid, ion(1-) (9CI) (CA INDEX NAME)



D1-SO₃⁻

RN 50852-11-4 HCAPLUS
 CN Naphthalenesulfonic acid, ion(1-) (9CI) (CA INDEX NAME)

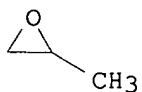


D1-SO₃⁻

RN 106392-12-5 HCAPLUS
 CN Oxirane, methyl-, polymer with oxirane, block (9CI) (CA INDEX NAME)

CM 1

CRN 75-56-9
 CMF C3 H6 O



CM 2

CRN 75-21-8

CMF C2 H4 O



RN 113032-51-2 HCAPLUS
 CN Benzenesulfonic acid, tridecyl-, ion(1-) (9CI) (CA INDEX NAME)

D1- SO₃⁻D1- (CH₂)₁₂-Me

RN 690635-07-5 HCAPLUS
 CN Atplus UCL 1007 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L79 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:300949 HCAPLUS
 DN 138:323336
 ED Entered STN: 18 Apr 2003
 TI Hydrophobically modified saccharide surfactants
 IN Booten, Karl; Levecke, Bart; Stevens, Christian Victor
 PA Tiense Suikerraffinaderij N.V., Belg.
 SO PCT Int. Appl., 35 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM B01F017-00
 ICS C10M001-00
 CC 48-1 (Unit Operations and Processes)
 Section cross-reference(s): 45, 46, 62, 66

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003031043	A1	20030417	WO 2002-EP11233	20021008
	W: AU, BR, CA, CN, CZ, HU, ID, JP, KR, MX, NZ, US, ZA				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR				
	EP 1304158	A1	20030423	EP 2001-124037	20011009
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	CA 2457947	AA	20030417	CA 2002-2457947	20021008
	EP 1441844	A1	20040804	EP 2002-800606	20021008
	EP 1441844	B1	20050119		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR, BG, CZ, EE, SK				
	BR 2002012342	A	20040824	BR 2002-12342	20021008

AT 287288	E	20050215	AT 2002-800606	20021008
JP 2005504630	T2	20050217	JP 2003-534067	20021008
ES 2231733	T3	20050516	ES 2002-2800606	20021008
US 2004248761	A1	20041209	US 2004-490994	20040326
PRAI EP 2001-124037	A	20011009		
WO 2002-EP11233	W	20021008		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2003031043	ICM	B01F017-00
	ICS	C10M001-00
WO 2003031043	ECLA	B01F017/00E; B01F017/00E2; B01F017/00K; B01F017/00K2; C07H003/00; C08B030/18; C08B031/00; C08B037/00M6B; C08L003/04; C08L003/04+B; C08L005/00; C08L005/00+B; C11D001/66B; C11D017/00B3
EP 1304158	ECLA	B01F017/00E; B01F017/00E2; B01F017/00K; B01F017/00K2; C07H003/00; C08B030/18; C08B031/00; C08B037/00M6B; C08L003/04; C08L003/04+B; C08L005/00; C08L005/00+B; C11D001/66B; C11D017/00B3
JP 2005504630	FTERM	4C083/AD191; 4C083/AD192; 4C083/AD211; 4C083/AD212; 4C083/BB01; 4C083/DD33; 4C083/EE01; 4D077/AC01; 4D077/AC05; 4D077/BA01; 4D077/BA03; 4D077/DD63X; 4D077/DE02X; 4D077/DE24X
US 2004248761	NCL	510/470.000
	ECLA	B01F017/00E; B01F017/00E2; B01F017/00K; B01F017/00K2; C07H003/00; C08B030/18; C08B031/00; C08B037/00M6B; C08L003/04; C08L003/04+B; C08L005/00; C08L005/00+B; C11D001/66B; C11D017/00B3
AB		The invention relates to the use as surfactant, for the preparation of dispersions of multiphase systems that comprise a continuous aqueous phase containing a high concentration of electrolytes, of hydrophobically modified saccharides (I) and (II) [A] _n (-M)s (I) [B] _m (-M)s' (II) where [A] _n represents a fructan-type saccharide [B] _m represents a starch-type saccharide, (-M) represents a hydrophobic moiety that substitutes a hydrogen atom of a hydroxyl group of the fructosyl and/or glucosyl units of the fructan-type and starch-type saccharides, and s and s', which can have the same value or not, represent the number of said hydrophobic moieties that substitute the fructosyl or glucosyl unit, expressed as average degree of substitution (average DS) which ranges from 0.01 to 0.5. The hydrophobic group is either an alkylcarbamoyle radical R-NH-CO- (forming N-substituted carbamic acid esters) or an alkylcarbonyl radical R-CO- (forming carboxylic acid esters), wherein R represents a linear or branched, saturated or unsatd. C4-C32 alkyl group. The invention also discloses a method for the preparation and/or stabilization of and/or formulations for dispersions of multiphase systems that comprise a continuous aqueous phase containing a high concentration of electrolytes, of up to 1M, by using as surfactant one or more hydrophobically modified saccharides (I) and/or (II) defined above.
ST		hydrophobic group modified saccharide surfactant emulsion foam salt stabilizer; stabilization high electrolyte ionic strength multiphase emulsifier saccharide ester; carboxylic fatty carbamic acid saccharide fructosyl glucosyl ester surfactant
IT		Glycerides, processes RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses) (C8-10, Estol 3603; surfactants from hydrophobically modified esters of saccharides)
IT		Glycerides, properties RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

- (C8-10; surfactants from hydrophobically modified esters of saccharides)
- IT Carbon black, uses
RL: MOA (Modifier or additive use); USES (Uses)
(Elftex 570; surfactants from hydrophobically modified esters of saccharides)
- IT Sunflower oil
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(Florasun 90, oleic acid-high; surfactants from hydrophobically modified esters of saccharides)
- IT Fats and Glyceridic oils, processes
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(avocado; surfactants from hydrophobically modified esters of saccharides)
- IT Homogenization
(by high-speed homogenizer; surfactants from hydrophobically modified esters of saccharides)
- IT Amines, uses
RL: MOA (Modifier or additive use); USES (Uses)
(coco alkyl, ethoxylated; surfactants from hydrophobically modified esters of saccharides)
- IT Antiperspirants
(creams, emulsion; surfactants from hydrophobically modified esters of saccharides)
- IT Cosmetics
(creams, moisturizers; surfactants from hydrophobically modified esters of saccharides)
- IT Coagulation
(critical coagulation concentration of electrolyte; surfactants from hydrophobically modified esters of saccharides)
- IT Cyclosiloxanes
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(di-Me, 344EU; surfactants from hydrophobically modified esters of saccharides)
- IT Fructooligosaccharides
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(esters with C4-C32 linear or branched fatty acids or N-alkyl and N-alkenyl carbamic acids; surfactants from hydrophobically modified esters of saccharides)
- IT Glycosides
Polysaccharides, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(esters, esters with C4-C32 linear or branched fatty acids or N-alkyl and N-alkenyl carbamic acids; surfactants from hydrophobically modified esters of saccharides)
- IT Cosmetics
Foams
(formulations for increased stability of; surfactants from hydrophobically modified esters of saccharides)
- IT Quaternary **ammonium** compounds, uses
RL: MOA (Modifier or additive use); USES (Uses)
(halides; surfactants from hydrophobically modified esters of

- saccharides)
- IT Cosmetics
 - (hand creams; surfactants from hydrophobically modified esters of saccharides)
- IT Ionic strength
 - (high in aqueous phase; surfactants from hydrophobically modified esters of saccharides)
- IT Stability
 - (long-term,; resistance to coagulation of emulsions or latexes during storage, electrolyte-induced, foam stability)
- IT Hydroxides (inorganic)
 - RL: MOA (Modifier or additive use); USES (Uses)
 - (metal and quaternary **ammonium** salts; surfactants from hydrophobically modified esters of saccharides)
- IT Salts, uses
 - RL: MOA (Modifier or additive use); USES (Uses)
 - (metal salts; surfactants from hydrophobically modified esters of saccharides)
- IT Viscosity
 - (modifiers; surfactants from hydrophobically modified esters of saccharides)
- IT Bases, uses
 - RL: MOA (Modifier or additive use); USES (Uses)
 - (organic, metal and quaternary **ammonium** salts; surfactants from hydrophobically modified esters of saccharides)
- IT Halides
 - RL: MOA (Modifier or additive use); USES (Uses)
 - (quaternary **ammonium** halides; surfactants from hydrophobically modified esters of saccharides)
- IT **Fatty acids, uses**
 - RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 - (saturated, C4-C32 linear or branched, saccharide esters; surfactants from hydrophobically modified esters of saccharides)
- IT Disperse systems
 - Electrolytes
 - Emulsions
 - Perfumes
 - Surfactants
 - Suspensions
 - Thickening agents
 - (surfactants from hydrophobically modified esters of saccharides)
- IT Halides
 - Quaternary **ammonium** compounds, uses
 - Quaternary **ammonium** compounds, uses
 - RL: MOA (Modifier or additive use); USES (Uses)
 - (surfactants from hydrophobically modified esters of saccharides)
- IT Capillary tubes
 - (treatment products for; surfactants from hydrophobically modified esters of saccharides)
- IT **Fatty acids, uses**
 - RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 - (unsatd., esters, C4-C32 linear or branched, saccharide esters; surfactants from hydrophobically modified esters of saccharides)
- IT 28874-51-3
 - RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 - (Nalidon; surfactants from hydrophobically modified esters of saccharides)

- IT 99-96-7D, alkyl esters
RL: MOA (Modifier or additive use); USES (Uses)
(Paraben; surfactants from hydrophobically modified esters of saccharides)
- IT 38641-94-0, Round Up
RL: MOA (Modifier or additive use); USES (Uses)
(Round Up Plus; surfactants from hydrophobically modified esters of saccharides)
- IT 72-17-3, Sodium lactate 814-80-2, Calcium lactate 7487-88-9, Magnesium sulfate, uses 7647-14-5, Sodium chloride, uses 7783-20-2, Ammonium sulfate, uses 7786-30-3, Magnesium chloride, uses 10043-52-4, Calcium chloride, uses
RL: MOA (Modifier or additive use); USES (Uses)
(electrolyte; surfactants from hydrophobically modified esters of saccharides)
- IT 9003-53-6P, Polystyrene
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(latex, surfactant-free; surfactants from hydrophobically modified esters of saccharides)
- IT 9011-14-7P, Poly(methyl methacrylate)
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(latex; surfactants from hydrophobically modified esters of saccharides)
- IT 111-01-3, Pripure SQV 3759
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(squalane; surfactants from hydrophobically modified esters of saccharides)
- IT 151-21-3, Sodium dodecyl sulfate, uses
RL: MOA (Modifier or additive use); USES (Uses)
(surfactant during PMMA polymerization; surfactants from hydrophobically modified esters of saccharides)
- IT 50-21-5D, Lactic acid, metal and quaternary ammonium salts
122-99-6, Phenoxy ethanol 139-33-3, Disodium EDTA 463-79-6D, Carbonic acid, metal and quaternary ammonium salts 554-68-7, Triethylammonium chloride 994-36-5, Sodium citrate 1066-33-7, Ammonium Bicarbonate 1338-39-2, Span 20 7664-38-2D, Phosphoric acid, metal and quaternary ammonium salts 7664-93-9D, Sulfuric acid, metal and quaternary ammonium salts 9005-64-5, Polysorbate 20 25086-29-7, Styrene-vinylpyrrolidone copolymer 71902-01-7, Sorbitan isostearate 101659-01-2, Sodium Magnesium silicate
RL: MOA (Modifier or additive use); USES (Uses)
(surfactants from hydrophobically modified esters of saccharides)
- IT 190524-47-1P, Inulin stearate 195395-20-1P, Inulin dodecanoate 195395-22-3P, Inulin hexadecanoate 345236-53-5P, Maltodextrin N-n-dodecylcarbamate 478483-27-1P, N-Dodecylcarbamate inulin ester 512180-31-3P 512180-32-4P, Inulin oleate 512180-33-5P, Maltodextrin n-dodecanoate 512180-34-6P, Raftilose P 95, N-dodecylcarbamate 512180-35-7P, N-Hexadecylcarbamate inulin ester 512180-36-8P, N-Octadecylcarbamate inulin ester
RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(surfactants from hydrophobically modified esters of saccharides)
- IT 463-77-4D, Carbamic acid, C4-C32 linear or branched N-alkyl and N-alkenyl derivs., saccharide esters
RL: MOA (Modifier or additive use); TEM (Technical or engineered material

use); USES (Uses)
 (surfactants from hydrophobically modified esters of saccharides)
 IT 7664-41-7, **Ammonia**, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (surfactants from hydrophobically modified esters of saccharides)
 IT 110-27-0, Estol 1514 109485-61-2, Arlamol HD
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP
 (Physical process); TEM (Technical or engineered material use); PROC
 (Process); USES (Uses)
 (surfactants from hydrophobically modified esters of saccharides)
 IT 1327-41-9, Aluminum chlorohydrate 5421-46-5, **Ammonium**
 Thioglycolate 41669-30-1, Isostearyl isostearate 58401-56-2
 RL: PRP (Properties); TEM (Technical or engineered material use); USES
 (Uses)
 (surfactants from hydrophobically modified esters of saccharides)
 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE
 (1) Kunz, M; US 5502180 A 1996 HCAPLUS
 (2) Kunz, M; US 5877144 A 1999 HCAPLUS
 (3) Tiense Suikerraffinaderij N V; EP 0964054 A 1999 HCAPLUS
 IT **38641-94-0, Round Up**
 RL: MOA (Modifier or additive use); USES (Uses)
 (**Round Up** Plus; surfactants from hydrophobically
 modified esters of saccharides)
 RN 38641-94-0 HCAPLUS
 CN Glycine, N-(phosphonomethyl)-, compd. with 2-propanamine (1:1) (9CI) (CA
 INDEX NAME)
 CM 1
 CRN 1071-83-6
 CMF C3 H8 N O5 P

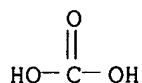
HO₂C-CH₂-NH-CH₂-PO₃H₂

CM 2

CRN 75-31-0
 CMF C3 H9 N

NH₂
 |
 H₃C-CH-CH₃

IT **1066-33-7, Ammonium Bicarbonate**
 RL: MOA (Modifier or additive use); USES (Uses)
 (surfactants from hydrophobically modified esters of saccharides)
 RN 1066-33-7 HCAPLUS
 CN Carbonic acid, monoammonium salt (8CI, 9CI) (CA INDEX NAME)

● NH₃

L79 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:315456 HCAPLUS

DN 136:320800

ED Entered STN: 26 Apr 2002

TI Water-soluble **glyphosate** tablets

IN Hamroll, Bernd; Dittrich, Gunter; Muller, Bernd

PA Schirm Ag, Germany

SO U.S. Pat. Appl. Publ., 4 pp.

CODEN: USXXCO

DT Patent

LA English

IC ICM A01N057-18

INCL 504206000

CC 5-3 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002049140	A1	20020425	US 2001-969168	20011002
	US 6475954	B2	20021105		
	DE 10052489	A1	20020502	DE 2000-10052489	20001023
	EP 1203532	A1	20020508	EP 2001-115068	20010621
	EP 1203532	B1	20040721		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	AT 271315	E	20040815	AT 2001-115068	20010621
PRAI	DE 2000-10052489	A	20001023		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2002049140	ICM	A01N057-18
	INCL	504206000
US 2002049140	NCL	504/206.000
	ECLA	A01N057/20+M
DE 10052489	ECLA	A01N057/20+M
EP 1203532	ECLA	A01N057/20+M

AB Disclosed is a solid formulation of the herbicidal active agent **glyphosate** [N-(phosphonomethyl)glycine] compressed into tablet form. It is applied in the agricultural and horticultural sectors to destroy unwanted vegetation. The solid formulation according to the invention consists essentially of free **glyphosate** acid, salifying agents (alkali or **ammonium hydrogencarbonate** or carbonate in conjunction with solid organic acids), biol. activating agents and diluents. A suitably sized tablet can consequently be adapted to supply an appropriate dose of spray mixture per surface unit for small-scale users. Submerging in water causes the **glyphosate** to convert into a soluble salt. The resulting carbon dioxide facilitates rapid disintegration of the tablet.

ST **glyphosate** herbicide tablet

IT Bicarbonates

RL: MOA (Modifier or additive use); USES (Uses)
 (alkali; water-soluble **glyphosate** tablets containing)

IT **Phosphates, uses**
 RL: MOA (Modifier or additive use); USES (Uses)
 (alkyl ethers; water-soluble **glyphosate** tablets containing)

IT **Polyoxyalkylenes, uses**
 RL: MOA (Modifier or additive use); USES (Uses)
 (di-Me polysiloxane-, Break-Thru S 275DS; water-soluble **glyphosate** tablets containing)

IT **Polysiloxanes, uses**
 RL: MOA (Modifier or additive use); USES (Uses)
 (di-Me, polyoxyalkylene-, Break-Thru S 275DS; water-soluble **glyphosate** tablets containing)

IT **Alcohols, uses**
 Amines, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (fatty, ethoxylated; water-soluble **glyphosate** tablets containing)

IT **Polysiloxanes, uses**
 RL: MOA (Modifier or additive use); USES (Uses)
 (polyether-; water-soluble **glyphosate** tablets containing)

IT **Polyethers, uses**
 RL: MOA (Modifier or additive use); USES (Uses)
 (siloxane-; water-soluble **glyphosate** tablets containing)

IT **Agrochemical formulations**
 (tablets; water-soluble **glyphosate** tablets)

IT **Herbicides**
 (water-soluble **glyphosate** tablets)

IT **1071-83-6, Glyphosate**
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (Water-soluble **glyphosate** tablets)

IT **3812-32-6, Carbonate, uses**
 RL: MOA (Modifier or additive use); USES (Uses)
 (alkali; water-soluble **glyphosate** tablets containing)

IT **5138-18-1, Butanedioic acid, sulfo-**
 RL: MOA (Modifier or additive use); USES (Uses)
 (alkyl ethers; water-soluble **glyphosate** tablets containing)

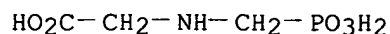
IT **9004-34-6, Cellulose, uses**
 RL: MOA (Modifier or additive use); USES (Uses)
 (hydrosol.; water-soluble **glyphosate** tablets containing)

IT **57-13-6, Urea, uses 77-92-9, Citric acid, uses 124-04-9, Adipic acid, uses 144-55-8, Sodium bicarbonate, uses 144-62-7, Oxalic acid, uses 298-14-6, Potassium bicarbonate 497-19-8, Sodium carbonate, uses 506-87-6, Ammonium carbonate 584-08-7, Potassium carbonate 1066-33-7, Ammonium hydrogencarbonate 5949-29-1, Citric acid monohydrate 6153-56-6, Oxalic acid dihydrate 7757-82-6, Sodium sulphate, uses 7783-20-2, Ammonium sulphate, uses 9002-92-0, Rhodasurf D 202 31900-57-9, Polydimethyl siloxane 258281-94-6, Geronol CFAR 412930-25-7, Geropon CF 320 412931-33-0, Rhodameen CF 15H 412931-79-4, Rhodorsil Antifoam 6703**
 RL: MOA (Modifier or additive use); USES (Uses)
 (water-soluble **glyphosate** tablets containing)

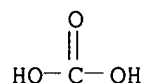
IT **1071-83-6, Glyphosate**
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (Water-soluble **glyphosate** tablets)

RN **1071-83-6 HCAPLUS**

CN **Glycine, N-(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)**

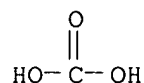


IT 506-87-6, Ammonium carbonate 1066-33-7
 , Ammonium hydrogencarbonate
 RL: MOA (Modifier or additive use); USES (Uses)
 (water-soluble **glyphosate** tablets containing)
 RN 506-87-6 HCAPLUS
 CN Carbonic acid, diammonium salt (8CI, 9CI) (CA INDEX NAME)



● 2 NH₃

RN 1066-33-7 HCAPLUS
 CN Carbonic acid, monoammonium salt (8CI, 9CI) (CA INDEX NAME)



● NH₃

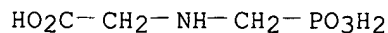
L79 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2001:283720 HCAPLUS
 DN 134:276883
 ED Entered STN: 20 Apr 2001
 TI Adjuvant for a herbicidal composition
 IN Koenig, Shane John; Muir, Clifford Neale
 PA Nufarm Limited, Australia
 SO PCT Int. Appl., 21 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A01N025-30
 CC 5-3 (Agrochemical Bioregulators)
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001026463	A1	20010419	WO 2000-AU284	20000404
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,			

CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 ZA 2002002731 A 20030408 ZA 2002-2731 20020408
 PRAI AU 1999-3393 A 19991013
 AU 1999-4292 A 19991126

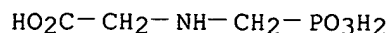
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001026463	ICM	A01N025-30
WO 2001026463	ECLA	A01N025/30; A01N057/20+M
AB	An adjuvant composition for use with a herbicide comprises agriculturally-acceptable salt(s) and a surfactant component including an ammonium salt of an ethoxylated alc. phosphate ester and an amphoteric surfactant.	
ST	adjuvant herbicide compn	
IT	Herbicides	
	Pesticide formulations	
	(adjuvant for herbicidal compns.)	
IT	Phospholipids, uses	
	RL: MOA (Modifier or additive use); USES (Uses)	
	(adjuvant for herbicidal compns. containing)	
IT	Surfactants	
	(amphoteric; adjuvant for herbicidal compns. containing)	
IT	Alcohols, uses	
	RL: MOA (Modifier or additive use); USES (Uses)	
	(ethoxylated, phosphate esters; adjuvant for herbicidal compns. containing)	
IT	1071-83-6, Glyphosate 38641-94-0, Roundup	
	RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)	
	(adjuvant for herbicidal compns.)	
IT	1066-33-7, Ammonium bicarbonate 6484-52-2, Ammonium nitrate, uses 7320-34-5, TetraPotassium pyrophosphate 7757-82-6, Sodium sulfate, uses 7783-20-2, Ammonium sulfate, uses 16068-46-5, Potassium phosphate 19257-98-8 120528-51-0, Li-700 258281-94-6, Geronol CF/AR 303731-07-9, Rhodafac ARB 70	
	RL: MOA (Modifier or additive use); USES (Uses)	
	(adjuvant for herbicidal compns. containing)	
RE.CNT 4	THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD	
RE		
(1)	Darchy; US 5180414 A 1993 HCAPLUS	
(2)	Kassebaum; US 5912209 A 1999 HCAPLUS	
(3)	Monsanto Company; EP 483095 A 1992 HCAPLUS	
(4)	Roberts; US 5877112 A 1999 HCAPLUS	
IT	1071-83-6, Glyphosate 38641-94-0, Roundup	
	RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)	
	(adjuvant for herbicidal compns.)	
RN	1071-83-6 HCAPLUS	
CN	Glycine, N-(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)	



RN 38641-94-0 HCAPLUS
 CN Glycine, N-(phosphonomethyl)-, compd. with 2-propanamine (1:1) (9CI) (CA INDEX NAME)
 CM 1
 CRN 1071-83-6

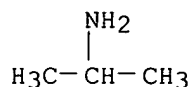
CMF C3 H8 N O5 P



CM 2

CRN 75-31-0

CMF C3 H9 N

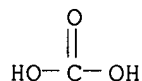


IT 1066-33-7, Ammonium bicarbonate

RL: MOA (Modifier or additive use); USES (Uses)
(adjuvant for herbicidal compns. containing)

RN 1066-33-7 HCAPLUS

CN Carbonic acid, monoammonium salt (8CI, 9CI) (CA INDEX NAME)

● NH₃

L79 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:56352 HCAPLUS

DN 126:71610

ED Entered STN: 27 Jan 1997

TI Casein-based sprayable pesticide formulation

IN Shasha, Baruch S.; McGuire, Michael R.; Behle, Robert W.

PA United States of America, Secretary of Agriculture, USA; Biotechnology
Research and Development Corporation

SO PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A01N063-00

CC 5-4 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9637106	A1	19961128	WO 1996-US5996	19960430
	W: AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR				
	AU 9656700	A1	19961211	AU 1996-56700	19960430

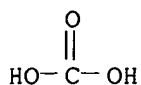
PRAI US 1995-450004 A 19950525
 WO 1996-US5996 W 19960430

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9637106	ICM	A01N063-00
WO 9637106	ECLA	A01N025/22; A01N025/24
AB	A process of delivering a pest control agent in a sprayable formulation, using casein or a casein salt, is provided. When a casein salt is used, a crosslinking agent, such as ammonium zirconium carbonate, must be provided. The formulation protects the pesticide from environmental conditions, such as a wash-off and UV degradation	
ST	casein spray pesticide formulation	
IT	Caseins, uses RL: MOA (Modifier or additive use); USES (Uses) (casein-based sprayable pesticide formulation)	
IT	Caseins, uses RL: MOA (Modifier or additive use); USES (Uses) (complexes; casein-based sprayable pesticide formulation)	
IT	Pesticide formulations (sprays; casein-based pesticide formulation)	
IT	Bacillus thuringiensis (toxin; casein-based sprayable pesticide formulation)	
IT	63-25-2, Carbaryl 94-75-7, 2,4-D, biological studies 121-75-5, Malathion 333-41-5, Diazinon 1071-83-6, Glyphosate 1582-09-8, Trifluralin 4685-14-7, Paraquat 35367-38-5, Dimilin 51218-45-2, Metolachlor RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (casein-based sprayable pesticide formulation)	
IT	22829-17-0, Ammonium zirconium carbonate RL: MOA (Modifier or additive use); USES (Uses) (crosslinking agent for casein salts; casein-based sprayable pesticide formulation)	
IT	1071-83-6, Glyphosate RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (casein-based sprayable pesticide formulation)	
RN	1071-83-6 HCAPLUS	
CN	Glycine, N-(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)	

HO₂C-CH₂-NH-CH₂-PO₃H₂

IT **22829-17-0, Ammonium** zirconium carbonate
 RL: MOA (Modifier or additive use); USES (Uses)
 (crosslinking agent for casein salts; casein-based sprayable pesticide formulation)
 RN 22829-17-0 HCAPLUS
 CN Carbonic acid, ammonium zirconium salt (8CI, 9CI) (CA INDEX NAME)



●x NH₃

●x Zr(x)

L79 ANSWER 10 OF 17 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1995:441267 HCAPLUS
 DN 122:186448
 ED Entered STN: 25 Mar 1995
 TI Magnetized compound fertilizer and production method thereof
 IN Peng, Sigan; Li, Fangyi
 PA Sanyi Magnetic Fertilizer Technology Development Co., Ltd., Peop. Rep. China
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 9 pp.
 CODEN: CNXXEV
 DT Patent
 LA Chinese
 IC ICM C05G003-00
 ICS C05G003-02
 CC 19-5 (Fertilizers, Soils, and Plant Nutrition)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1093695	A	19941019	CN 1994-104937	19940510
PRAI	CN 1994-104937		19940510		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
CN 1093695	ICM	C05G003-00
	ICS	C05G003-02

AB The magnetized compound fertilizer is prepared from powdered coal ash, nitrogen fertilizer, phosphorus fertilizer, potassium fertilizer, zinc sulfate, borax, ammonium molybdate, copper sulfate, manganese sulfate, herbicides such as butachlor, insecticides such as DCIP.

ST magnetized compd fertilizer prepn

IT Herbicides

Insecticides

(magnetized compound fertilizer and production method thereof)

IT Bentonite, biological studies

Clays, biological studies

Kaolin, biological studies

Kieselguhr

Zeolites, biological studies

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(magnetized compound fertilizer and production method thereof)

IT Fertilizers

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(calcium magnesium phosphate, magnetized compound fertilizer and production method thereof)

IT Ashes (residues)
(coal, powdered; magnetized compound fertilizer and production method thereof)

IT Fertilizers
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(nitrogen, magnetized compound fertilizer and production method thereof)

IT Fertilizers
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(phosphorus, magnetized compound fertilizer and production method thereof)

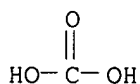
IT Fertilizers
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(potassium, magnetized compound fertilizer and production method thereof)

IT 57-13-6, Urea, biological studies 108-60-1, DCIP (nematocide)
137-42-8, Vapam 330-54-1, Diuron 533-74-4, Dazomet 1066-33-7
, **Ammonium hydrogen carbonate**
1071-83-6, **Glyphosate** 1303-96-4, Borax 1344-09-8,
Sodium silicate 1582-09-8, Trifluralin 1912-24-9, Atrazine
2303-17-5, Triallate 6484-52-2, **Ammonium** nitrate, biological
studies 7287-19-6, Prometryn 7733-02-0, Zinc sulfate 7758-23-8,
Calcium superphosphate 7758-98-7, Copper sulfate, biological studies
7783-20-2, **Ammonium** sulfate, biological studies 7785-87-7,
Manganese sulfate 8003-19-8, Vidden D 10124-31-9, **Ammonium**
phosphate 11098-84-3, **Ammonium** molybdate 12125-02-9,
Ammonium chloride, biological studies 13194-48-4, Ethoprophos
14807-96-6, Talc, biological studies 15545-48-9, Chlorotoluron
23184-66-9, Butachlor 28249-77-6, Benthicarb
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(magnetized compound fertilizer and production method thereof)

IT 1066-33-7, **Ammonium hydrogen carbonate**
1071-83-6, **Glyphosate**
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(magnetized compound fertilizer and production method thereof)

RN 1066-33-7 HCAPLUS

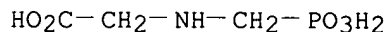
CN Carbonic acid, monoammonium salt (8CI, 9CI) (CA INDEX NAME)



● NH₃

RN 1071-83-6 HCAPLUS

CN Glycine, N-(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)



L79 ANSWER 11 OF 17 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1994:2732 HCAPLUS

DN 120:2732

ED Entered STN: 08 Jan 1994

TI Influence of **diammonium** sulfate and other salts on
glyphosate phytotoxicity

AU Nalewaja, John D.; Matysiak, Robert

- CS Crop Weed Sci. Dep., North Dakota State Univ., Fargo, ND, 58105, USA
 SO Pesticide Science (1993), 38(2-3), 77-84
 CODEN: PSSCBG; ISSN: 0031-613X
 DT Journal
 LA English
 CC 5-3 (Agrochemical Bioregulators)
 Section cross-reference(s): 4
 AB **Diammonium** sulfate is commonly used as an adjuvant with **glyphosate**, but reports vary regarding its effect on weed control, and its possible function in enhancing **glyphosate** phytotoxicity is not fully understood. Several expts. were conducted in the glasshouse to determine **glyphosate** phytotoxicity to various species as influenced by **diammonium** sulfate in distilled water and in the presence of antagonistic salts. **Diammonium** sulfate overcame sodium hydrogen carbonate, calcium chloride, and 2,4-D antagonism of **glyphosate** phytotoxicity to wheat (*Triticum aestivum* L.). Sulfate anions were important for overcoming calcium antagonism, possibly by forming calcium sulfate. Scanning electron micrographs of spray droplets of **glyphosate** with calcium chloride and **diammonium** sulfate indicated the presence of crystals, presumed to be calcium sulfate, that were independent of the **glyphosate** deposit. **Diammonium** sulfate may also provide **ammonium** ions to form effective **glyphosate-ammonia** complexes rather than less effective calcium, sodium, diethylamine, or other cation complexes. **Diammonium** sulfate also may influence susceptibility to **glyphosate** by affecting herbicide absorption into foliage of certain species. **Glyphosate** phytotoxicity to sunflower was increased, whereas phytotoxicity to kochia (*Kochia scoparia*) and soybean was reduced by **diammonium** sulfate applied in the absence of antagonistic salts; **diammonium** sulfate apparently has several functions as an adjuvant with **glyphosate**.
 ST **glyphosate** phytotoxicity **diammonium** sulfate salt
 IT *Kochia scoparia*
 Soybean
 Sunflower
 Wheat
 (**glyphosate** phytotoxicity to, **diammonium** sulfate and other salts effect on)
 IT 1336-21-6, **Ammonium** hydroxide 6484-52-2, **Ammonium** nitrate, biological studies 7664-93-9, Sulfuric acid, biological studies 7697-37-2, Nitric acid, biological studies 7757-82-6, Sodium sulfate, biological studies 7783-20-2, **Diammonium** sulfate, biological studies
 RL: BIOL (Biological study)
 (**glyphosate** phytotoxicity response to)
 IT 94-75-7, 2,4-D, biological studies 144-55-8, Sodium hydrogen carbonate, biological studies 10043-52-4, Calcium chloride, biological studies
 RL: BIOL (Biological study)
 (**glyphosate** phytotoxicity response to **diammonium** sulfate or other salts and)
 IT 506-87-6, **Ammonium** carbonate 631-61-8,
Ammonium acetate 1066-33-7, **Ammonium** bicarbonate 7632-50-0, **Ammonium** citrate 7722-76-1,
Ammonium monobasic phosphate 7783-28-0, **Ammonium** dibasic phosphate 7803-63-6, **Ammonium** bisulfate 12125-02-9,
Ammonium chloride, biological studies
 RL: BIOL (Biological study)
 (**glyphosate** phytotoxicity response to sodium hydrogen carbonate or calcium chloride and)
 IT 1071-83-6, **Glyphosate**

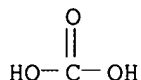
RL: PRP (Properties)
(phytotoxicity of, **diammonium** sulfate and other salts effect on)

IT 506-87-6, **Ammonium carbonate** 1066-33-7
, **Ammonium bicarbonate**

RL: BIOL (Biological study)
(**glyphosate** phytotoxicity response to sodium hydrogen carbonate or calcium chloride and)

RN 506-87-6 HCAPLUS

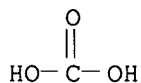
CN Carbonic acid, diammonium salt (8CI, 9CI) (CA INDEX NAME)



● 2 NH₃

RN 1066-33-7 HCAPLUS

CN Carbonic acid, monoammonium salt (8CI, 9CI) (CA INDEX NAME)



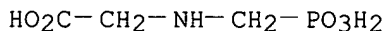
● NH₃

IT 1071-83-6, **Glyphosate**

RL: PRP (Properties)
(phytotoxicity of, **diammonium** sulfate and other salts effect on)

RN 1071-83-6 HCAPLUS

CN Glycine, N-(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)



L79 ANSWER 12 OF 17 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1992:78183 HCAPLUS

DN 116:78183

ED Entered STN: 06 Mar 1992

TI Salt antagonism of **glyphosate**

AU Nalewaja, John D.; Matysiak, Robert

CS N. D. State Univ., Fargo, ND, 58105, USA

SO Weed Science (1991), 39(4), 622-8

CODEN: WEESA6; ISSN: 0043-1745

DT Journal

LA English

CC 4-4 (Toxicology)

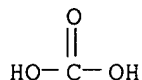
Section cross-reference(s): 11

AB Research was conducted with wheat as a bioassay species to further determine

the influence of various salts on **glyphosate** phytotoxicity. Cation antagonism of **glyphosate** occurred with iron > zinc > calcium ≥ magnesium > sodium > potassium. **Ammonium** cation with hydroxide or most other anions was not antagonistic. Anions of **ammonium** compds. were of primary importance in overcoming **glyphosate** antagonistic salts, while the **ammonium** cation was neutral or slightly stimulatory with certain anions. Sulfate, phosphate, citrate, and acetate anions were not antagonistic, but nitrate and chloride anions were slightly antagonistic when applied as **ammonium** salts or acids. Antagonism of **glyphosate** action by sodium bicarbonate and calcium chloride was overcome by phosphoric, sulfuric, and citric acid and phosphate, sulfate, and citrate **ammonium** salts. Acid and **ammonium** salts of nitrate and chloride were more effective in overcoming sodium bicarbonate than calcium chloride antagonists of **glyphosate**. Ferric sulfate antagonism was overcome only by citric, partly by phosphoric and sulfuric, but not by nitric and hydrochloric acids or their **ammonium** salts. Acetic acid, **ammonium** acetate, and **ammonium** hydroxide did not overcome any salt antagonism of **glyphosate**. **Glyphosate** response to salts was independent of spray carrier pH.

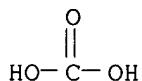
- ST salt antagonism **glyphosate** toxicity wheat; Triticus
glyphosate phytotoxicity salt
 IT Plant growth and development
 (**glyphosate** and salt effect on, by wheat)
 IT Acids, biological studies
 Bases, biological studies
 Salts, biological studies
 RL: BIOL (Biological study)
 (**glyphosate** toxicity to wheat antagonism by)
 IT Wheat
 (**glyphosate** toxicity to, salt antagonism of)
 IT 64-19-7, Acetic acid, biological studies 77-92-9, Citric acid,
 biological studies 127-09-3, Sodium acetate 144-55-8, Sodium
 bicarbonate, biological studies 471-34-1, Calcium carbonate, biological
 studies 497-19-8, Sodium carbonate, biological studies 506-87-6
 , Diammonium carbonate 631-61-8, Ammonium
 acetate 1066-33-7, Ammonium bicarbonate
 1305-62-0, Calcium hydroxide, biological studies 1310-58-3, Potassium
 hydroxide, biological studies 1310-73-2, Sodium hydroxide, biological
 studies 1336-21-6, Ammonium hydroxide 3486-35-9, Zinc
 carbonate 6484-52-2, Ammonium nitrate, biological studies
 7487-88-9, Magnesium sulfate, biological studies 7631-99-4, Sodium
 nitrate, biological studies 7632-05-5, Sodium orthophosphate
 7632-50-0, Ammonium citrate 7646-85-7, Zinc chloride,
 biological studies 7647-01-0, Hydrochloric acid, biological studies
 7647-14-5, Sodium chloride, biological studies 7664-38-2, Phosphoric
 acid, biological studies 7664-93-9, Sulfuric acid, biological studies
 7681-38-1, Sodium bisulfate 7697-37-2, Nitric acid, biological studies
 7705-08-0, Ferric chloride, biological studies 7720-78-7, Ferrous
 sulfate 7733-02-0, Zinc sulfate 7757-82-6, Sodium sulfate, biological
 studies 7758-94-3, Ferrous chloride 7773-01-5, Manganese chloride
 7778-18-9, Calcium sulfate 7783-20-2, Ammonium sulfate,
 biological studies 7786-30-3, Magnesium chloride, biological studies
 7803-63-6, Ammonium bisulfate 10028-22-5, Ferric sulfate
 10043-52-4, Calcium chloride, biological studies 10045-89-3
 10124-31-9, Ammonium orthophosphate 10124-37-5, Calcium
 nitrate 10138-04-2, Ferric ammonium sulfate 10377-60-3,
 Magnesium nitrate 10421-48-4, Ferric nitrate 12125-02-9,
 Ammonium chloride, biological studies 73588-75-7
 RL: BIOL (Biological study)

(glyphosate toxicity to wheat antagonism by)
 IT 1071-83-6, **Glyphosate**
 RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
 (toxicity of, to wheat, salt antagonism of)
 IT 506-87-6, **Diammonium carbonate**
 1066-33-7, **Ammonium bicarbonate**
 RL: BIOL (Biological study)
 (glyphosate toxicity to wheat antagonism by)
 RN 506-87-6 HCAPLUS
 CN Carbonic acid, diammonium salt (8CI, 9CI) (CA INDEX NAME)



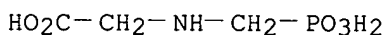
● 2 NH₃

RN 1066-33-7 HCAPLUS
 CN Carbonic acid, monoammonium salt (8CI, 9CI) (CA INDEX NAME)



● NH₃

IT 1071-83-6, **Glyphosate**
 RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
 (toxicity of, to wheat, salt antagonism of)
 RN 1071-83-6 HCAPLUS
 CN Glycine, N-(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)



L79 ANSWER 13 OF 17 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1991:159150 HCAPLUS
 DN 114:159150
 ED Entered STN: 03 May 1991
 TI Water-soluble herbicide powders or granules containing N-
phosphonomethylglycine
 IN Kuchikata, Masuo; Prill, Erhard John; Richardson, Ronald Owen; Sato,
 Tatsuo; Surgant, John Melvin; Wright, Daniel Richard
 PA Monsanto Co., USA
 SO PCT Int. Appl., 45 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A01N057-20
 ICS A01N025-14; A01N025-12

CC 5-3 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9007275	A1	19900712	WO 1989-US5793	19891221
	W: AU, BB, BG, BR, DK, FI, HU, JP, KR, LK, NO, RO, SD, SU				
	RW: AT, BE, CH, DE, ES, FR, GB, IT, LU, NL, SE				
	EP 378985	A1	19900725	EP 1989-870207	19891221
	EP 378985	B1	19960626		
	EP 378985	B2	20010124		
	R: GR				
	AU 9048333	A1	19900801	AU 1990-48333	19891221
	AU 635514	B2	19930325		
	EP 452366	A1	19911023	EP 1990-901470	19891221
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE				
	JP 04502618	T2	19920514	JP 1990-501913	19891221
	AT 139670	E	19960715	AT 1989-870207	19891221
	ES 2088906	T3	19961001	ES 1989-870207	19891221
	JP 2938970	B2	19990825	JP 1989-501913	19891221
	CA 2006816	AA	19900630	CA 1989-2006816	19891228
	CA 2006816	C	19990330		
	CN 1044206	A	19900801	CN 1989-109841	19891228
	ZA 8909965	A	19911127	ZA 1989-9965	19891228
	US 5656572	A	19970812	US 1995-463844	19950605
	US 5872078	A	19990216	US 1997-898654	19970722
	US 6228807	B1	20010508	US 1997-899297	19970723
PRAI	US 1988-292499	A	19881230		
	WO 1989-US5793	A	19891221		
	US 1990-625516	A3	19901211		
	US 1995-557371	B1	19951113		
	US 1996-726538	B3	19961007		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9007275	ICM	A01N057-20
	ICS	A01N025-14; A01N025-12
EP 378985	ECLA	A01N057/20+M
US 5656572	NCL	504/206.000; 504/362.000; 504/367.000
	ECLA	A01N057/20+M
US 5872078	NCL	504/206.000; 504/127.000; 504/128.000; 504/135.000; 504/137.000; 504/144.000; 504/146.000
	ECLA	A01N057/20+M
US 6228807	NCL	504/206.000; 504/366.000; 504/367.000
	ECLA	A01N057/20+M

AB The title herbicide contains **N-phosphonomethylglycine** or its salt, a liquid surfactant, a salt, other water-insol. co-herbicides, such as 2,4-D, dicamba, etc., and optionally a dispersing agent. The herbicides can be pan-dried, or spray-dried after granulation (>60 mesh). Thus, a composition was formulated consisting of **glyphosate** 90.86 g and **NH₄HCO₃** 43.52 g.

ST herbicide powder granule **phosphonomethylglycine**

IT Herbicides

(**phosphonomethylglycine**-containing water-soluble powders)

IT Corrosion inhibitors

Dispersing agents

Sequestering agents

Thickening agents

Carbonates, biological studies

Diphosphates

Phosphates, biological studies

Sulfites
 Thiosulfates
 Triphosphates
 RL: BIOL (Biological study)
 (powdery water-soluble herbicide compns. containing **glyphosate** and)

IT Borates
 RL: BIOL (Biological study)
 (meta-, powdery water-soluble herbicide compns. containing **glyphosate** and)

IT Sulfonamides
 RL: BIOL (Biological study)
 (sulfonyleureas, powdery water-soluble herbicide compns. containing **glyphosate** and)

IT Borates
 RL: BIOL (Biological study)
 (tetra-, powdery water-soluble herbicide compns. containing **glyphosate** and)

IT **1071-83-6, Glyphosate 58527-15-4**
70901-12-1 81591-81-3 102413-71-8 114370-14-8
128126-27-2
 RL: BIOL (Biological study)
 (powdery water-soluble herbicide compns. containing)

IT 50-31-7 57-13-6, Urea, biological studies 64-19-7, Acetic acid, biological studies 71-52-3, Bicarbonate, biological studies 75-99-0, Dalapon 93-65-2, Mecoprop 93-76-5, 2,4,5-T 94-74-6, MCPA 94-75-7, 2,4-D, biological studies 94-81-5, MCPB 120-36-5, Dichloroprop 122-34-9, Simazine 133-90-4, Chloramben 145-73-3 330-54-1, Diuron 330-55-2, Linuron 1912-24-9, Atrazine 1918-00-9, Dicamba 1918-02-1, Picloram 7447-40-7, Potassium chloride, biological studies 7699-41-4D, Silicic acid (H₂SiO₃), salts 7757-82-6, Sodium sulfate, biological studies 7778-80-5, Potassium sulfate, biological studies 7783-20-2, **Ammonium** sulfate, biological studies 15972-60-8, Alachlor 35597-43-4, Bialaphos 42874-03-3, Oxyfluorfen 57102-06-4 64902-72-3, Glean 66441-23-4 72178-02-0, Fomesafen 74222-97-2, Oust 74223-64-6, Ally 81335-37-7, Scepter 90982-32-4, Classic
 RL: BIOL (Biological study)
 (powdery water-soluble herbicide compns. containing **glyphosate** and)

IT **1071-83-6, Glyphosate 58527-15-4**
70901-12-1 102413-71-8 114370-14-8
128126-27-2
 RL: BIOL (Biological study)
 (powdery water-soluble herbicide compns. containing)

RN 1071-83-6 HCAPLUS

CN Glycine, N-(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)

HO₂C-CH₂-NH-CH₂-PO₃H₂

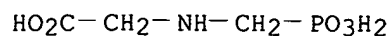
RN 58527-15-4 HCAPLUS

CN Glycine, N-(phosphonomethyl)-, compd. with 2-propanamine (9CI) (CA INDEX NAME)

CM 1

CRN 1071-83-6

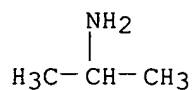
CMF C3 H8 N O5 P



CM 2

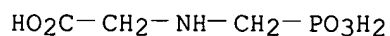
CRN 75-31-0

CMF C3 H9 N



RN 70901-12-1 HCAPLUS

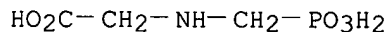
CN Glycine, N-(phosphonomethyl)-, potassium salt (9CI) (CA INDEX NAME)



●x K

RN 102413-71-8 HCAPLUS

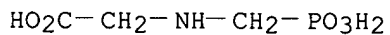
CN Glycine, N-(phosphonomethyl)-, sodium salt (9CI) (CA INDEX NAME)



●x Na

RN 114370-14-8 HCAPLUS

CN Glycine, N-(phosphonomethyl)-, ammonium salt (9CI) (CA INDEX NAME)

●x NH₃

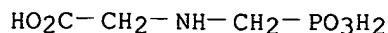
RN 128126-27-2 HCAPLUS

CN Glycine, N-(phosphonomethyl)-, compd. with guanidine (9CI) (CA INDEX NAME)

CM 1

CRN 1071-83-6

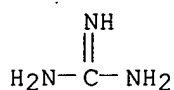
CMF C3 H8 N O5 P



CM 2

CRN 113-00-8

CMF C H5 N3



L79 ANSWER 14 OF 17 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1990:436393 HCAPLUS
 DN 113:36393
 ED Entered STN: 03 Aug 1990
 TI Plant growth regulator precursors comprising N-(phosphonomethyl)glycine or its derivative and carbonates
 IN Bartha, Ferenc; Gulyas, Imre; Repasi, Janos; Simon, Endre
 PA Alkaloida Vegyeszeti Gyar, Hung.
 SO Hung. Teljes, 22 pp.
 CODEN: HUXXB
 DT Patent
 LA Hungarian
 IC ICM A01N057-18
 ICS A01N047-06
 CC 5-3 (Agrochemical Bioregulators)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	HU 49276	A2	19890928	HU 1988-431	19880201
	HU 206606	B	19921228		
PRAI	HU 1988-431		19880201		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
HU 49276	ICM	A01N057-18
	ICS	A01N047-06

OS MARPAT 113:36393

AB The **phosphonomethylglycines** $\text{GCOCH}_2\text{NZCH}_2\text{P}(\text{O})(\text{OH})(\text{OR})$ (G = NRR1, OR; R, R1 = H, alkyl, arylalkyl, aryl, heterocyclyl; NR1R2 = heterocyclyl; Z = H, R1CO, R2X1X2CO, R3SO2, R3PO3; R2 = R1, halo; R3 = alkyl, arylalkyl, aryl, heterocyclyl; X1, X2 = H, halo; X1 ≠ X2 = H), mixed with the carbonates (A1O)(A2O)CO (A1, A2 = H, metal, etc.), are plant growth regulator precursors. In the presence of water, the precursors yield the soluble plant growth regulators $\text{GCOCH}_2\text{NZCH}_2\text{P}(\text{O})(\text{OM1})(\text{OM2})$ (M1, M2 = R, A1, A2). A mixture of 169 g N-phosphoromethylglycine, 48 g $(\text{NH}_4)_2\text{CO}_3$, 15.5 g ethoxylated C13-15 alkylamine and 6.5 g octaethylene glycol nonylphenyl ether, constituted a plant growth regulator precursor formulation. When the formulation was treated with water, the soluble N-phosphoromethylglycine **monoammonium** salt was formed.

ST carbonate **phosphonomethylglycine** phytohormone precursor

IT Plant hormones and regulators

RL: BIOL (Biological study)

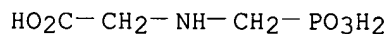
(soluble, precursors of, **phosphonomethylglycine** and carbonates as)

- IT **34494-03-6P, N-Phosphonomethylglycine**
 monosodium salt **39600-42-5P, N-Phosphonomethylglycine** monopotassium salt **40465-66-5P, N-Phosphonomethylglycine monoammonium salt**
 74412-22-9P 77076-92-7P 84767-88-4P **128126-26-1P**
128126-27-2P 128126-28-3P 128126-29-4P
 128126-30-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, in situ, as plant growth regulator)
- IT **1071-83-6** 39600-51-6 128126-31-8
 RL: BIOL (Biological study)
 (soluble plant growth regulator precursor containing carbonate and)
- IT 144-55-8, Carbonic acid monosodium salt, biological studies 497-19-8,
 Carbonic acid disodium salt, biological studies **506-87-6**
 554-13-2, Lithium carbonate 584-08-7, Potassium carbonate 100224-74-6,
 Guanidine carbonate
 RL: BIOL (Biological study)
 (soluble plant growth regulator precursor containing
phosphonomethylglycine and)
- IT **34494-03-6P, N-Phosphonomethylglycine**
 monosodium salt **39600-42-5P, N-Phosphonomethylglycine** monopotassium salt **40465-66-5P, N-Phosphonomethylglycine monoammonium salt**
128126-26-1P 128126-27-2P 128126-28-3P
128126-29-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, in situ, as plant growth regulator)
- RN 34494-03-6 HCAPLUS
 CN Glycine, N-(phosphonomethyl)-, monosodium salt (9CI) (CA INDEX NAME)



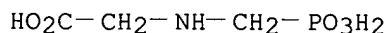
● Na

- RN 39600-42-5 HCAPLUS
 CN Glycine, N-(phosphonomethyl)-, monopotassium salt (9CI) (CA INDEX NAME)



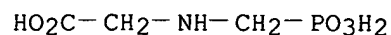
● K

- RN 40465-66-5 HCAPLUS
 CN Glycine, N-(phosphonomethyl)-, monoammonium salt (9CI) (CA INDEX NAME)



● NH₃

RN 128126-26-1 HCAPLUS
CN Glycine, N-(phosphonomethyl)-, lithium salt (9CI) (CA INDEX NAME)

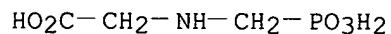


●x Li

RN 128126-27-2 HCAPLUS
CN Glycine, N-(phosphonomethyl)-, compd. with guanidine (9CI) (CA INDEX NAME)

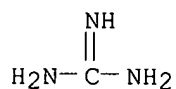
CM 1

CRN 1071-83-6
CMF C3 H8 N O5 P

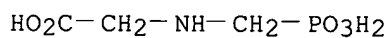


CM 2

CRN 113-00-8
CMF C H5 N3



RN 128126-28-3 HCAPLUS
CN Glycine, N-(phosphonomethyl)-, potassium sodium salt (9CI) (CA INDEX NAME)



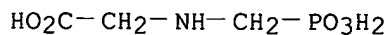
●x K

●x Na

RN 128126-29-4 HCAPLUS
CN Glycine, N-(phosphonomethyl)-, compd. with morpholine (9CI) (CA INDEX NAME)

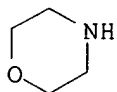
CM 1

CRN 1071-83-6
CMF C3 H8 N O5 P

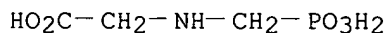


CM 2

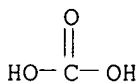
CRN 110-91-8
CMF C4 H9 N O



IT **1071-83-6**
RL: BIOL (Biological study)
(soluble plant growth regulator precursor containing carbonate and)
RN 1071-83-6 HCAPLUS
CN Glycine, N-(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)



IT **506-87-6**
RL: BIOL (Biological study)
(soluble plant growth regulator precursor containing
phosphonomethylglycine and)
RN 506-87-6 HCAPLUS
CN Carbonic acid, diammonium salt (8CI, 9CI) (CA INDEX NAME)



●2 NH₃

L79 ANSWER 15 OF 17 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1987:1757 HCAPLUS
DN 106:1757
ED Entered STN: 11 Jan 1987
TI Adjuvants for **glyphosate**
AU Gimesi, Antal
CS Kutato Intez., MTA Novenyvedelmi, Budapest, Hung.
SO Novenytermeles (1986), 35(4), 319-24
CODEN: NOVEAK; ISSN: 0546-8191
DT Journal
LA Hungarian
CC 5-3 (Agrochemical Bioregulators)

AB **Ammonium** salts, phospholipids, etc., were tested as **glyphosate** [1071-83-6] adjuvants in greenhouse and field trials. **NH₄NO₃** and Natipide [83764-59-4] increased by 20-30% the herbicidal effect of **glyphosate**. The appropriate **glyphosate:NH₄NO₃** ratio is 1:3. Approx. 20-30% of **glyphosate** was saved by the adjuvants.

ST **glyphosate** herbicidal activity enhancer

IT Phospholipids

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(**glyphosate** herbicidal activity response to)

IT Toxicity
(phyto-, of **glyphosate**, promoters for)

IT 6484-52-2, **Ammonium** nitrate, biological studies
RL: BIOL (Biological study)
(**glyphosate** herbicidal activity enhancement by)

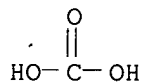
IT 1066-33-7, **Ammonium bicarbonate** 7783-20-2, **Ammonium** sulfate, biological studies 83764-59-4
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(**glyphosate** herbicidal activity response to)

IT 1071-83-6, **Glyphosate**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(herbicidal activity of, enhancers of)

IT 1066-33-7, **Ammonium bicarbonate**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(**glyphosate** herbicidal activity response to)

RN 1066-33-7 HCAPLUS

CN Carbonic acid, monoammonium salt (8CI, 9CI) (CA INDEX NAME)

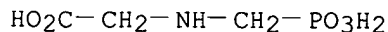


● NH₃

IT 1071-83-6, **Glyphosate**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(herbicidal activity of, enhancers of)

RN 1071-83-6 HCAPLUS

CN Glycine, N-(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)



L79 ANSWER 16 OF 17 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1986:16488 HCAPLUS
DN 104:16488
ED Entered STN: 24 Jan 1986

jan delaval - 31 october 2005

TI Effect of inorganic salts on the toxicity and translocation of **glyphosate** and MSMA in purple nutsedge (*Cyperus rotundus*)

AU Wills, Gene D.; McWhorter, Chester G.

CS Mississippi Agric. For. Exp. Stn., Agric. Res. Serv., Stoneville, MS, 38776, USA

SO Weed Science (1985), 33(6), 755-61
CODEN: WEESA6; ISSN: 0043-1745

DT Journal

LA English

CC 5-3 (Agrochemical Bioregulators)

AB The effects of several inorg. salts on the toxicity and translocation of nonradiolabeled and ¹⁴C-labeled MSMA [2163-80-6] and **glyphosate** isopropylamine salt [38641-94-0] following foliar applications to purple nutsedge (*C. rotundus*) were evaluated. Salts of NH_4^+ , K^+ , and Na^+ and to a lesser degree the anion PO_4^{3-} generally resulted in increased toxicity of these herbicides. Salts of Zn^{2+} and Fe^{3+} frequently reduced the activity of **glyphosate** and MSMA, whereas salts of Ca^{2+} caused little or no effect on activity. Salts of Cl^- , NO_3^- , CO_3^{2-} , and SO_4^{2-} resulted in increased, decreased, or unchanged **glyphosate** toxicity as influenced by the associated cation. Translocation of the radiolabel of [¹⁴C]**glyphosate** and [¹⁴C]MSMA was increased by the addition of NH_4Cl , whereas retention of the radiolabel within the tissue of the treated area was increased by the addition of FeCl_3 to the treated leaf surface.

ST *Cyperus* **glyphosate** MSMA salt ion

IT Anions
Cations
(**glyphosate** and MSMA toxicity and translocation in purple nutsedge response to)

IT *Cyperus rotundus*
(**glyphosate** and MSMA toxicity and translocation in, inorg. salts effect on)

IT Translocation
(of **glyphosate** and MSMA, in purple nutsedge, inorg. salts effect on)

IT Salt effect
(on **glyphosate** and MSMA toxicity and translocation, in purple nutsedge)

IT 2163-80-6 38641-94-0
RL: BIOL (Biological study)
(herbicidal activity and translocation of, in purple nutsedge, inorg. salts effect on)

IT 7705-08-0, biological studies 12125-02-9, biological studies
RL: BIOL (Biological study)
(herbicide toxicity and translocation in purple nutsedge response to)

IT 144-55-8, biological studies 298-14-6 471-34-1, biological studies
1066-33-7 6484-52-2, biological studies 7447-40-7, biological studies 7558-80-7 7631-99-4, biological studies 7646-85-7, biological studies 7646-93-7 7647-14-5, biological studies 7681-38-1 7722-76-1 7757-79-1, biological studies 7757-93-9 7778-18-9 7778-18-9 7778-77-0 7779-88-6 7779-90-0 7779-90-0 7803-63-6 10028-22-5 10124-37-5 10421-48-4
RL: BIOL (Biological study)
(herbicide toxicity to purple nutsedge response to)

IT 38641-94-0
RL: BIOL (Biological study)
(herbicidal activity and translocation of, in purple nutsedge, inorg. salts effect on)

RN 38641-94-0 HCAPLUS

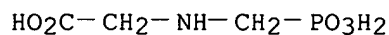
CN Glycine, N-(phosphonomethyl)-, compd. with 2-propanamine (1:1) (9CI) (CA

INDEX NAME)

CM 1

CRN 1071-83-6

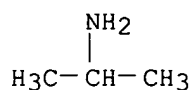
CMF C3 H8 N O5 P



CM 2

CRN 75-31-0

CMF C3 H9 N



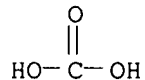
IT 1066-33-7

RL: BIOL (Biological study)

(herbicide toxicity to purple nutsedge response to)

RN 1066-33-7 HCAPLUS

CN Carbonic acid, monoammonium salt (8CI, 9CI) (CA INDEX NAME)

● NH₃

L79 ANSWER 17 OF 17 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1980:509006 HCAPLUS

DN 93:109006

ED Entered STN: 12 May 1984

TI Herbicide compositions containing N-

phosphonomethylglycine and inorganic **ammonium** salts

IN Gimesi, Antal

PA Novenyvedelmi Kutato Intezet, Hung.; Nitrokemia Ipartelepek

SO Hung. Teljes, 9 pp.

CODEN: HUXXB

DT Patent

LA Hungarian

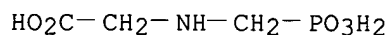
IC A01N009-02

CC 5-3 (Agrochemicals)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	HU 17836	O	19800328	HU 1978-NO232	19781228
PRAI	HU 1978-NO232		19781228		
CLASS					

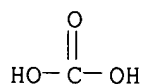
PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
HU 17836	IC	A01N009-02
AB	The herbicidal effect of N-phosphonomethylglycine (I) [1071-83-6] was increased by inorg. NH4 salts, e.g. NH4NO3 , NH4Cl , and (NH4)2CO3 . Thus, the I content could be decreased by ≤50% in herbicide compns. containing 1:4-4:1 mixts. of I and NH4 salts without decreasing the herbicidal effect. A composition is given containing I 5, (NH4)2CO3 5, isooctylphenol polyglycolether 10, and H2O 80 parts.	
ST	herbicide phosphonomethylglycine ammonium salt	
IT	Herbicides (phosphonomethylglycine - and ammonium salts-containing)	
IT	1071-83-6 RL: BIOL (Biological study) (herbicidal composition containing ammonium salts and)	
IT	506-87-6 14798-03-9D, compds. RL: BIOL (Biological study) (herbicidal composition containing phosphonomethylglycine and)	
IT	1071-83-6 RL: BIOL (Biological study) (herbicidal composition containing ammonium salts and)	
RN	1071-83-6 HCAPLUS	
CN	Glycine, N-(phosphonomethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)	



IT **506-87-6**
RL: BIOL (Biological study)
(herbicidal composition containing **phosphonomethylglycine** and)

RN **506-87-6** HCAPLUS

CN Carbonic acid, diammonium salt (8CI, 9CI) (CA INDEX NAME)



●2 NH₃

=> => fil wpix
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FILE LAST UPDATED: 27 OCT 2005 <20051027/UP>
MOST RECENT DERWENT UPDATE: 200569 <200569/DW>
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<http://thomsonderwent.com/support/dwpieref/reftools/classification/code-revision/> FOR DETAILS. <<<

=> d all abeq tech abex tot

L99 ANSWER 1 OF 7 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN

AN 2005-436075 [45] WPIX

DNC C2005-134070

TI Solid **glyphosate** ammonium salt preparation comprises **glyphosphate** powder, **ammonium carbonate** or **ammonium bicarbonate**, stabilizer and excipient.

DC C01

IN LIANG, X; SHU, Q; WANG, G

PA (SICH-N) SICHUAN DIMEITE BIOLOGICAL SCI & TECHNOL

CYC 1

PI CN 1589628 A 20050309 (200545)* A01N057-10

ADT CN 1589628 A CN 2003-135659 20030825

PRAI CN 2003-135659 20030825

IC ICM A01N057-10

ICS A01N025-12

AB CN 1589628 A UPAB: 20050715

NOVELTY - A **glyphosate**-ammonium salt solid as herbicide is prepared from **glyphosphate** powder, **ammonium carbonate** or **ammonium bicarbonate**, stabilizer and assistant through proportionally mixing and granulating. Dwg.0/1

FS CPI

FA AB

MC CPI: C05-B01G; C05-C01; C05-C04; C12-M11D; C14-V01; C14-V02

L99 ANSWER 2 OF 7 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN

AN 2004-282626 [26] WPIX

DNC C2004-108497

TI Preparation of water soluble pesticidal composition used to control weeds, comprises reacting particulate **glyphosate** acid, base component and water in reactor and adding dicarboxylate component.

DC A97 C01 C03

IN ABRAHAM, W; CALABOTTA, B J; GRAHAM, J A; MASSMANN, B D; MILLER, W H; WANG, J T

PA (ABRA-I) ABRAHAM W; (CALA-I) CALABOTTA B J; (GRAH-I) GRAHAM J A; (MASS-I) MASSMANN B D; (MILL-I) MILLER W H; (MONS) MONSANTO TECHNOLOGY LLC; (WANG-I) WANG J T

CYC 106

PI WO 2004019684 A2 20040311 (200426)* EN 82 A01N057-20

RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS

LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK

DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
 KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH
 PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC
 VN YU ZA ZM ZW

US 2004077499 A1 20040422 (200428) A01N057-00

AU 2003268314 A1 20040319 (200462) A01N057-20

EP 1538910 A2 20050615 (200539) EN A01N057-20

R: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV
 MC MK NL PT RO SE SI SK TR

BR 2003014096 A 20050712 (200547) A01N057-20

ADT WO 2004019684 A2 WO 2003-US27229 20030829; US 2004077499 A1 Provisional US
 2002-407479P 20020831, US 2003-653332 20030902; AU 2003268314 A1 AU
 2003-268314 20030829; EP 1538910 A2 EP 2003-749270 20030829, WO
 2003-US27229 20030829; BR 2003014096 A BR 2003-14096 20030829, WO
 2003-US27229 20030829

FDT AU 2003268314 A1 Based on WO 2004019684; EP 1538910 A2 Based on WO
 2004019684; BR 2003014096 A Based on WO 2004019684

PRAI US 2002-407479P 20020831; US 2003-653332 20030902

IC ICM A01N057-00; A01N057-20

AB WO2004019684 A UPAB: 20040421

NOVELTY - Preparation of a water soluble pesticidal composition (I) comprises adding a **glyphosate** component (C) comprising particulate **glyphosate** acid (D), a base component (E), water and optionally an adjuvant component (F) to a reactor to cause the (D) and (E) to react and form a reaction mass comprising a water soluble salt of **glyphosate** acid (A) and adding dicarboxylate component (B) to the reactor.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for
 (1) preparation of a dry water soluble pesticidal composition (II) comprising one or more of (A) and (B) which comprises mixing a **glyphosate** component to form a dry pesticidal composition where the **glyphosate** component optionally contains sources of **glyphosate** other than (A), provided that at least 50 weight% a.e. of the **glyphosate** component is one or more water soluble salts of **glyphosate** acid, and

(2) preparation of a pesticide enhancer composition (III) comprising a salt of (B) and a surfactant component which comprises combining (B) (comprising the dicarboxylic acid), (E) and a surfactant component in a reactor to cause a reaction between (B) and (E) to form the enhancer composition.

ACTIVITY - Herbicide.

No agricultural data is given.

MECHANISM OF ACTION - None given.

USE - Useful in agriculture to control weeds or other vegetation.

ADVANTAGE - Dry **glyphosate** formulation overcomes the disadvantage of increased production cost and comparative complexity of compounding a solid product from a combination of liquid and solid components rather than making a product in solution from the same components.

Dwg.0/9

FS CPI

FA AB; DCN

MC CPI: A12-W04C; C05-A01A; C05-A01B; C05-B01G; C05-B02A3; C05-C01; C05-C08;
 C10-A07; C10-B02J; C10-C02; C14-V01

TECH UPTX: 20040421

TECHNOLOGY FOCUS - AGRICULTURE - Preferred Process: (C) and at least a portion of the water are added to the reactor in the form of **glyphosate** acid wet cake. (B) is premixed with the **glyphosate** acid wet cake prior to adding to the reactor. (E) is added to the reactor as a liquid or a gas. (E) is ammonia, potassium

hydroxide or sodium hydroxide so that (A) is ammonium **glyphosate**, potassium **glyphosate** or sodium **glyphosate**, respectively. The molar ratio of (C) to (A) added to the reactor is 0.8-1.25 (preferably 0.95-1.05).

The process further comprises reduction of the moisture content of the reaction mass where the reaction between (D) and (E) generates heat causing partial evaporation of the water from the reaction mass at 70-105 degrees C. The moisture content of the reaction mass is reduced to 2-20% (preferably 3-5%) to form a paste of pH 3-6 (preferably 3.5-4.5) containing (A). The process further comprises discharge of the paste comprising (A) and (B) from the reactor. (B) is additionally added to the paste discharged from the reactor. (F) (preferably surfactant component) is added to the paste to form an extrudable paste mixture.

The process further comprises feeding the extrudable paste mixture to an extruder having a screen through which the extrudable paste is extruded to form (I) in the form of extrudate strands. (F) is added to the reactor and/or to the paste discharged from the reactor in an amount so that the weight ratio of total (F) to (A) is 1:20-1:2 on an acid equivalent basis. The total amount of water added to the reactor is at least 40 wt.% of all (C), (B), (E) water and (F) added to the reactor and the reaction mass formed is a slurry or solution comprising (A) and (B). The process further comprises reduction of the moisture content of the reaction mass to less than 2 wt.% to form a dry water-soluble pesticidal composition. The process further comprises pan granulating the reaction mass to form a dry granular pesticidal composition or spray drying the reaction mass to form a dry particulate pesticidal composition. The process further comprises drying the reaction mass by contacting the reaction mass with a heated surface to form a solid deposit on the heated surface and scraping the solid deposit off the heated surface to produce a dry pesticidal flake composition.

Preferred Components: (B) is dicarboxylic acids, salts of dicarboxylic acids, anhydrides of dicarboxylic acids, esters of dicarboxylic acids, amides of dicarboxylic acids, halides of dicarboxylic acids, and/or precursors of dicarboxylic acids. The salt of dicarboxylic acid is sodium salts of dicarboxylic acids, potassium salts of dicarboxylic acids and/or isopropylamine salts of dicarboxylic acids. The dicarboxylic acid added to the reactor reacts with the (E) to form a salt of dicarboxylic acid in the reaction mass.

(B) in (I) comprises the salt of dicarboxylic acid formed in the reaction mass.

(F) comprises a surfactant component, anti-foaming agent, filler, humectant, symptomatology agent, desiccant, lubricant and/or scavenger. The surfactant comprises nonionic surfactants, cationic surfactants, anionic surfactants, amphoteric surfactants, silicone surfactants and/or fluorocarbon surfactants. The total amount of water added to the reactor is at least 2-40% (preferably 2%) by weight of all (C), (B), (E) water and (F) added to the reactor.

(C) Comprises one or more of (A). (A) mixed with (B) is present in a paste. (B) is oxalic acid. The concentration of (F) in (II) is 5-50% (preferably 5-25) wt.% and the weight ratio of (F) to (C) is 1:500 (preferably 1:20-1:2).

The preparation of (III) further comprises the addition of a filler component to the reactor. The concentration of the salt of (B) is 34-90% (preferably surfactant of concentration of 5-50%) by weight a.e. The concentration of filler is no greater than 34% (preferably 5-10%) by weight.

(C) Comprises alkali metal hydroxides, alkaline earth metal hydroxides, carbonates of alkali metals, carbonates of alkaline earth metals, alkali metal phosphates, ammonium phosphates, ammonia, **ammonium carbonate**, **ammonium bicarbonate** and/or

ammonium hydroxide. The surfactant comprises alkyl polyglycosides (APGs) and/or polyoxyethylene 16-22C alkylethers. (B) added to the reactor comprises oxalic acid, its salts and/or its esters. The salt of oxalic acid comprises alkali metal salts of oxalic acid, ammonium salts of oxalic acid, alkanolamine salts of oxalic acid and/or alkylamine salts of oxalic acid (preferably potassium oxalate, di-potassium oxalate, sodium oxalate, di-sodium oxalate, ammonium oxalate, di-ammonium oxalate, diethanolamine oxalate and/or dimethylamine oxalate).

(E) Comprises sodium hydroxide, potassium hydroxide, magnesium hydroxide, calcium hydroxide, sodium carbonate, sodium bicarbonate, sodium phosphate, disodium phosphate, trisodium phosphate, potassium phosphate, ammonium phosphates, ammonia, **ammonium carbonate**,

ammonium bicarbonate and/or ammonium hydroxide. (B)

Comprises oxalic acid, malonic acid, succinic acid, malic acid, tartaric acid, fumaric acid, maleic acid, glutaric acid, dimethylglutaric acid, adipic acid, trimethyladipic acid, pimelic acid, tartronic acid, suberic acid, azelaic acid, sebacic acid, 1,12-dodecanedioic acid, 1,13-tridecanedioic acid, glutamic acid, phthalic acid, isophthalic acid and/or terephthalic acid.

ABEX UPTX: 20040421

EXAMPLE - Ammonium **glyphosate** (68.5 pts. weight), diammonium oxalate (15 pts. weight) and sodium sulfite (0.4 pts. weight) were blended in a Hobart mixer for 1 to 3 minutes. The surfactants were then added, one at a time. The nonionic surfactant was a solid at room temperature and was melted prior to addition. The nonionic surfactant (8 pts. weight) was poured into the mixer after the addition of the liquid cationic surfactant (8 pts. weight). The composition was then mixed for 2 minutes with frequent scraping and stirring with a spatula or knife to break up any surfactant rich clumps. Anti-foam suspension (5 ml) was added to the mixer and the composition was worked up to give a dry pesticidal composition (87.5%).

L99 ANSWER 3 OF 7 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN

AN 2003-708197 [67] WPIX

DNC C2003-195156

TI Solid formulation comprises **glyphosate** and other components e.g. alkali or **ammonium hydrogen carbonate** or carbonate and polydimethyl siloxane.

DC A97 C01

IN DITTRICH, G; HAMROLL, B; MUELLER, B; MULLER, B

PA (HERM-N) HERMANIA SCHIRM GMBH; (SCHI-N) SCHIRM AG

CYC 27

PI US 2002049140 A1 20020425 (200367)* 4 A01N057-18

DE 10052489 A1 20020502 (200367) A01N057-12

EP 1203532 A1 20020508 (200367) GE A01N057-20

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT

RO SE SI TR

US 6475954 B2 20021105 (200367) A01N057-00

EP 1203532 B1 20040721 (200449) GE A01N057-20

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT

RO SE SI TR

DE 50102909 G 20040826 (200456) A01N057-20

ADT US 2002049140 A1 US 2001-969168 20011002; DE 10052489 A1 DE 2000-10052489 20001023; EP 1203532 A1 EP 2001-115068 20010621; US 6475954 B2 US 2001-969168 20011002; EP 1203532 B1 EP 2001-115068 20010621; DE 50102909 G DE 2001-00102909 20010621, EP 2001-115068 20010621

FDT DE 50102909 G Based on EP 1203532

PRAI DE 2000-10052489 20001023

IC ICM A01N057-00; A01N057-12; A01N057-18; A01N057-20

ICI A01N025:34, A01N057-20

AB US2002049140 A UPAB: 20031017

NOVELTY - A solid hydrosoluble formulation (I) of the herbicidally active N-(phosphonomethyl)glycine(**glyphosate**) includes the active agent, salifying agents, biological activating agents and diluents.

DETAILED DESCRIPTION - Solid hydrosoluble formulation (I) comprises (in weight%):

- (a) N-(phosphonomethyl)glycine(**glyphosate**) (10-30);
- (b) alkali or **ammonium hydrogen carbonate** or carbonate (12-52);
- (c) citric, oxalic or adipic acid (10-20);
- (d) hydrosoluble cellulose (0.5-2);
- (e) alkyl ether sulposuccinate, alkyl ether phosphate, ethoxylated fatty amine, and/or an ethoxylated fatty alcohol (8-12);
- (f) alkali or **ammonium hydrogencarbonate** or carbonate, ammonium sulphate and urea (50-60);
- (g) polydimethyl siloxane (0.2-1); and
- (h) polyether siloxane (1-5).

INDEPENDENT CLAIM are also included for the following:

- (i) an aqueous solution of (I); and
- (ii) preparation of (I).

USE - Herbicidal.

ADVANTAGE - Solid formulations are easily portable, the dose and tablet size can be easily adapted for small scale use, and the carbon dioxide produced when the tablet is submerged in water promotes rapid disintegration of the tablet.

Dwg.0/0

FS CPI

FA AB; DCN

MC CPI: A05-H01B; A06-A00E; A12-W04C; C04-C02A1; C04-C03D; C05-A01B; C05-B01G; C05-B01P; C05-C01; C10-A09C; C10-A13C; C10-B03B; C10-C02; C12-M11B; C14-V01

TECH UPTX: 20031017

TECHNOLOGY FOCUS - AGRICULTURE - Preferred Formulation: (I) contains (in wt.%): N-(phosphonomethyl)glycine(**glyphosate**) (18-22);); alkyl ether sulposuccinate, alkyl ether phosphate, ethoxylated fatty amine, and/or an ethoxylated fatty alcohol (10). It is in tablet form, in amount of active agent for 5, 10 or 20 litres of spray mixture, and effervescent in water to produce a clear solution.

Preparation: The ingredients are mixed and homogenized, and compressed into a tablet at 70-80 Newtons pressure.

ABEX UPTX: 20031017

EXAMPLE - A composition comprised (in weight%): **glyphosate** free acid (21); sodium hydrogencarbonate (12); Geroon CF/320 (RTM) (10); ammonium sulphate (57).

L99 ANSWER 4 OF 7 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN

AN 2001-281754 [29] WPIX

CR 2000-656519 [60]

DNC C2001-085687

TI Adjuvant compositions for use with herbicides include agriculturally acceptable salts, surfactant component, including ammonium salt of ethoxylated alcohol phosphate ester and amphoteric surfactant.

DC C01 C03

IN KOENIG, S J; MUIR, C N

PA (NUFA-N) NUFARM LTD

CYC 92

PI WO 2001026463 A1 20010419 (200129)* EN 21 A01N025-30

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
OA PT SD SE SL SZ TZ UG ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK

LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI
SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

AU 2000035440 A 20010423 (200147) A01N025-30

ADT WO 2001026463 A1 WO 2000-AU284 20000404; AU 2000035440 A AU 2000-35440
20000404

FDT AU 2000035440 A Based on WO 2001026463

PRAI AU 1999-4292 19991126; AU 1999-3393 19991013

IC ICM A01N025-30

AB WO 200126463 A UPAB: 20010822

NOVELTY - Adjuvant compositions for use with herbicides including:

- (a) one or more agriculturally acceptable salts;
 - (b) a surfactant component including an ammonium salt of an ethoxylated alcohol phosphate ester; and
 - (c) amphoteric surfactant.
- DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:
- (1) herbicidal compositions containing one or more herbicides and an adjuvant component; and
 - (2) kits for preparing herbicidal compositions including a herbicide and an adjuvant for the herbicide.

USE - The adjuvant compositions are for use with herbicides, particularly as tank mix adjuvants free of active herbicidal compound (claimed). They are used in combination with herbicide formulations, including **glyphosate**, dinitroaniline, triazine, cyclohexanedione, phenoxy, imidazoline and pyridyloxyphenoxy herbicides, to eradicate weeds.

ADVANTAGE - The compositions allow herbicides such as **glyphosate** to be used in a wide range of formulations and with other herbicide groups such as the dinitroaniline and triazine groups. The combination of components generally allows for better physical compatibility and improved efficacy of the herbicide even in hard water.

An adjuvant formulation (specific gravity 1.162) for use with a **glyphosate** composition combined (kg/l): ammonium sulfate (0.2550), Rhodofac ARB-70 (RTM: ethoxylated alcohol phosphate ester) (0.1786), 28 weight/weight % ammonia (0.0510), Li-700 (RTM: soya phospholipid/propionic acid mixture) (0.0455) and process water (0.6320). It was combined with a **glyphosate** composition comprising (kg/l): **glyphosate** acid wet-cake (0.6287), 100% weight/weight % 2-propanamine (0.1864), 28 weight/weight % ammonia (0.0213), Geronol CF/AR (RTM: ethoxylated alcohol phosphate ester, 2-propanamine salt) (0.0266), Luconyl Green FK872 (RTM: copper phthalocyanine pigment) (0.001) and process water (0.3710), with a specific gravity of 1.2350. The relative performance of a 1:1 volume of the herbicidal composition and a prior art herbicidal composition/adjuvant mixture at the recommended ratio were determined using soft mixing water (225 ppm) and hard mixing water (1000 ppm). The results showed that the performance of the prior art composition was significantly reduced in hard water whereas there was little or no reduction in the efficiency of the test composition at the same use rate (g/ha). The results showed that the test adjuvant significantly improved herbicidal performance in hard water when the rate of application was 450 g **glyphosate** acid equivalent/ha.

Dwg.0/5

FS CPI

FA AB; DCN

MC CPI: C04-B01B; C05-A01A; C05-A01B; C05-A03A; C05-B01G; C05-B01P;
C05-B02A3; C05-C01; C05-C02; C05-C05; C06-D18; C10-A22; C10-B04B;
C14-V01

TECH UPTX: 20010528

TECHNOLOGY FOCUS - AGRICULTURE - Preferred Salts: The salts are selected from ammonium sulfate, alkylammonium sulfate, ammonium nitrate, potassium phosphate, tetrapotassium pyrophosphate, sodium trisulfate, sodium sulfate

or **ammonium bicarbonate**, preferably ammonium sulfate and/or alkylammonium sulfate.

Preferred Compositions: The compositions comprise (weight/weight %): 5-30 (a), 0.5-25 (b) and 0.5-10 (c). The amphotericin surfactant is a phospholipid and the herbicides are selected from **glyphosate** or dinitroaniline, triazine, cyclohexanedione, phenoxy, imidazoline or pyridyloxyphenoxy herbicides, preferably a mixture of the ammonium and isopropylamine salts of **glyphosate** at a weight ratio based on **glyphosate** acid of 80:20-97:3.

ABEX UPTX: 20010528

ADMINISTRATION - Application is to the weeds (claimed).

EXAMPLE - An adjuvant formulation for use with a **glyphosate** composition combined (kg/l): ammonium sulfate (0.2550), Rhodofac ARB-70 (RTM: ethoxylated alcohol phosphate ester) (0.1786), 28 weight/weight % ammonia (0.0510), Li-700 (RTM: soyal phospholipid/propionic acid mixture) (0.0455) and process water (0.6320).

L99 ANSWER 5 OF 7 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN

AN 1994-028179 [04] WPIX

CR 1994-026572 [04]

DNC C1994-012920

TI Phytotoxic agent containing **glyphosate** ammonium salt - as stable, non-toxic, easily transported water-soluble form of herbicide N-phosphono methyl-glycine.

DC C01

IN CHUTRAU, N

PA (OSAS-N) PROD OSA SACIFIA

CYC 1

PI FR 2692439 A1 19931224 (199404)* 22 A01N057-04

ADT FR 2692439 A1 FR 1993-6053 19930519

PRAI AR 1992-322398 19920526

IC ICM A01N057-04

AB FR 2692439 A UPAB: 19940307

Product for application as phytotoxic agent contains as active agent an ammonium salt (I) of N-(phosphonomethyl)-glycine (NPMG). (I) is pref. the monoammonium salt (IA). Also claimed are: (i) concentrate compsns. for on-site preparation of phytotoxic formulations by dissolution in water, consisting of powder or granules containing (I) and one or more adjuvants selected from wetting agents, surfactants and powders; and (ii) phytotoxic preps. containing (I) and a vehicle.

USE/ADVANTAGE - (I) is a water-soluble form of the phytotoxic agent (herbicide) NPMG, i.e. **glyphosate**, NPMG is useful for post-emergence control of undesirable vegetation, including established and aquatic vegetation. Compared with the monoisopropanolamine salt (II) of NPMG (previously used as water-soluble form of NPMG). (I) have comparabel activity, lower toxicity and higher content of NPMG. (I) are stable crystalline solids, which are easier and cheaper to transport in bulk (e.g. in sacks) than (II) (transported as 48% aqueous solution).

Pref. concentration (I)-containing compsns. contain kaolin, attapulgite,

silica

or diatomaceous earth as powder additive, polyethoxylated nonylphenol or sodium lanylsulphate as surfactant; and polyvinyl alcohol or sodium naphthalenesulphonate as dispersant.

In an example, powdered NPMG was added iin portions to a stirred solution of **ammonium carbonate** (96g) in water (200 ml) at room temperature The solution was stirred until CO2 evolution ceased, filtered

and

concentration to 50 ml. (IA) was precipitated as white crystals. No examples of compsns.

containing (I) are given, although tests are described showing that 90% (IA) has comparable activity with 48% (II).

Dwg.0/0

FS CPI
FA AB; GI; DCN
MC CPI: C05-B01G; C14-V01

L99 ANSWER 6 OF 7 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN

AN 1991-283502 [39] WPIX

DNC C1991-122768

TI Improved **glyphosate** formulations preparation - comprising preparing premixes containing **N-phosphono methyl glycine** and oxyfluorfen etc., combining, extruding compsn. and opt. drying.

DC A97 C01 C03

IN KUCHIKATA, M; RICHARDSON, R O; SATO, T; MASUO, K; TATSUO, S

PA (MONS) MONSANTO CO

CYC 18

PI EP 448538 A 19910925 (199139)*

R: AT BE CH DE ES FR GB GR IT LI LU NL SE

AU 9172892 A 19910919 (199145)

CA 2038291 A 19910916 (199149)

NZ 237435 A 19921223 (199308)

A01N057-20

AU 634637 B 19930225 (199315)

A01N057-20

JP 05186308 A 19930727 (199334)

5 A01N057-12

EP 448538 B1 19970102 (199706)

EN 7 A01N057-20

R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DE 69123863 E 19970213 (199712)

A01N057-20

ES 2098341 T3 19970501 (199724)

A01N057-20

ADT EP 448538 A EP 1991-870040 19910314; NZ 237435 A NZ 1991-237435 19910314;

AU 634637 B AU 1991-72892 19910314; JP 05186308 A JP 1991-49351 19910314;

EP 448538 B1 EP 1991-870040 19910314; DE 69123863 E DE 1991-623863

19910314, EP 1991-870040 19910314; ES 2098341 T3 EP 1991-870040 19910314

FDT AU 634637 B Previous Publ. AU 9172892; DE 69123863 E Based on EP 448538;

ES 2098341 T3 Based on EP 448538

PRAI US 1990-491543 19900315

REP 1.Jnl.Ref; EP 143547; EP 290416; EP 378985; EP 394211; GB 1399005; WO 8912394

IC ICM A01N057-12; A01N057-20

ICS A01N025-12; A01N025-14; A01N031-08; A01N033-22

ICI A01N033:22, A01N057-20

AB EP 448538 A UPAB: 19930928

Preparation of a water-dispersible granule of N-phosphonomethyl glycine (I) or a water soluble salt, and oxyfluorfen (Goal) comprises; (a) preparing a (liquid) premix from Goal, at least one surfactant, and water or solvents, at a temperature in the range 50-80 deg.C; (b) forming another premix from (I) or a salt, a suitable acid acceptor and pre-ground (NH₄)₂SO₄; (c) combining premixes (a) and (b) in a mixer/kneader to form an extrudable compsn.; and (d) extruding through a die face having openings 0.1-2 mm in dia. to form the extruded granule; (e) opt. drying to form the prod.

USE/ADVANTAGE - (I) is well known as an effective herbicide but is insol. in water and is typically formulated as a water soluble salt especially isopropylamine salt, to kill or control weeds or plants, and is typically sold as an aqueous concentrate. The compsn. provides a dry, water soluble agriculturally acceptable prod. for killing or controlling weeds.

0/0

FS CPI
FA AB; DCN
MC CPI: A12-W04C; C05-B01G; C10-G03; C12-M11D; C12-P06

ABEQ EP 448538 B UPAB: 19970205

A process for preparing a water dispersible granule of N-

phosphonomethylglycine or a water soluble salt thereof and oxyfluorfen which comprises: (a) preparing a solution (first premix) of (i) 3.1 parts of oxyfluorfen (69% a.i.) in (ii) 9 parts of ethoxylated (15) tallow amine, 0.4 parts of ethoxylated (14.19) styrylphenyl ether, 0.1 parts of ethoxylated (50) castor oil, 6.0 parts of ethoxylated (15) propoxylated (15)-2-ethylhexyl ether having a molecular weight of about 1600, and 0.5 parts of organosilicone wetting agent at a temperature in the range from 50 deg.C to 80 deg.C (b) forming another premix by admixing: (i) 42 parts of **glyphosphate** as the ammonium salt or as a mixture of the ammonium salt with the sodium salt (85% a.e.); and (ii) 38.9 parts of pre-ground ammonium sulphate or a combination 15.4/24 of ammonium sulphate with ammonium phosphate; (c) combining premix of (a) with the premix of (b) in a mixer/kneader to form an extrudable composition; (d) extruding said extrudable composition in an extruder through a die face having openings in the range from about 0.1 to about 2 mm in diameter to form extruded granule and thereafter, (e) optionally drying said extruded granule to form said water dispersible granule product.
Dwg.0/0

L99 ANSWER 7 OF 7 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN

AN 1985-190814 [32] WPIX

DNC C1985-083313

TI Ecological plant protection agents production - by neutralisation of the halogen, phosphorus and sulphur content of conventional plant protection agent formulations.

DC C03

PA (SEHR-I) SEHRING R

CYC 1

PI DE 3402289 A 19850801 (198532)* 11

ADT DE 3402289 A DE 1984-3402289 19840124

PRAI DE 1984-3402289 19840124

IC A01N025-32

AB DE 3402289 A UPAB: 19930925

Conversion of conventional plant protection agents into ecological plant protection agents by (a) calculating the acid equivalent of the active substance by relating its chlorine, iodine, fluorine, bromine, sulphur and phosphorus contents to the corresponding hydrohalic, sulphuric and phosphoric acids; (b) calculating the acid equivs. of the emulsifiers, dispersing agents, wetting agents, and solvents in the same way; and (c) adding the acid equivs. calculated under (a) and (b) and treating with the equivalent amount of a neutralising agent.

Pref. neutralising agents are calcium, sodium, potassium and **ammonium carbonates**, sodium and potassium bicarbonates, calcium oxide and hydroxide, and alkali(ne earth) salts of organic acids such as acetic, propionic, butyric, oleic, palmitic or stearic acid.

USE - Prevention of ecological damage due to soil over-acidification arising from the halogen, sulphur and phosphorus content of plant protection agents (insecticides, acaricides, fungicides, herbicides).

0/0

FS CPI

FA AB

MC CPI: C05-A01A; C05-A01B; C05-C04; C05-C08; C10-C04E; C12-J05; C12-N08

=> d 199 7 dcn drn

L99 ANSWER 7 OF 7 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN

DRN 0015-U; 0065-U; 0121-U; 0122-U; 0174-U; 0247-U; 0445-U; 0493-U; 0613-U;

0832-U; 0954-U; 0970-U; 0974-U; 1081-U; 1102-U; 1151-U; 1202-U; 1222-U;
 1278-U; 1287-U; 1304-U; 1391-U; 1502-U; 1503-U; 1562-U; 1575-U;
 2072-U

=> e r02072+all/dcn

E1 637 --> R02072/DCN
 E2 UF GLYPHOSATE/DCN
 E3 UF PHOSPHONOMETHYLGLYCINE, N-/DCN
 ***** END *****

=> d his

(FILE 'HOME' ENTERED AT 10:07:29 ON 31 OCT 2005)

SET COST OFF

SET COST OFF

FILE 'REGISTRY' ENTERED AT 10:08:20 ON 31 OCT 2005

E N-PHOSPHONOMETHYL GLYCINE/CN

L1 1 S E8
 L2 760 S 1071-83-6/CRN
 L3 58 S L2 AND H3N
 E AMMONIUM BICARBONATE/CN
 L4 1 S E3
 L5 160 S 463-79-6/CRN AND H3N
 L6 0 S L2 AND L5
 L7 7 S L5 AND 2/NC
 L8 172 S L2 NOT (MXS OR IDS OR MNS OR PMS)/CI
 L9 39 S L8 NOT (COMPD OR WITH OR LABELED)
 L10 7 S L4,L7

FILE 'HCAPLUS' ENTERED AT 10:13:32 ON 31 OCT 2005

L11 5510 S L1
 L12 240 S L9
 L13 395 S N() (PHOSPHONOMETHYLGLYCINE OR PHOSPHONOMETHYL GLYCINE OF PHOS
 L14 539 S PHOSPHONOMETHYLGLYCINE OR PHOSPHONOMETHYL GLYCINE OF PHOSPHON
 L15 6269 S GLYPHOSATE OR FOLUSEN OR FORSAT OR GLIALKA OR GLIZ OR GLYFOS
 L16 10 S PHOSPHOMETHYLGLYCINE OR PHOSPHOMETHYL GLYCINE OF PHOSPHO METH
 L17 7250 S L11-L16
 L18 8291 S L10
 L19 11556 S AMMONIUM() (BICARBONATE OR BI CARBONATE OR HYDROGEN CARBONATE)
 L20 143 S AMMONIUM HYDROGENCARBONATE
 L21 200 S (DIAMMONIUM OR DI AMMONIUM) () CARBONATE
 L22 9 S AMBIC
 L23 12765 S L18-L22
 L24 14 S L17 AND L23
 L25 7333 S L2,L3,L17
 L26 13140 S L23,L5
 L27 15 S L25 AND L26
 L28 15 S L24,L27
 L29 0 S L28 AND TENSIOACT?
 L30 1 S US20040102323/PN OR (US2003-714870# OR AR2002-104441)/AP, PRN
 E VIGIL J/AU
 L31 5 S E3,E13
 E GUSTAVO/AU
 L32 1 S E3
 E RUIZ M/AU
 L33 124 S E3,E29
 E RUIZ MARTHA/AU
 L34 4 S E3,E5

L35 E DEL CARMEN/AU
5 S E118,E123
L36 1 S E168
L37 4 S E189-E191
E DELCARMEN/AU
E CARMEN/AU
L38 1 S E86
L39 2 S E109
E ANACABE/AU
L40 1 S E4
E OMAR/AU
L41 41 S E3,E4
E OMAR AN/AU
L42 2 S E29
E DANTE/AU
E ATANOR/PA,CS
L43 13 S E3-E15
L44 2 S L30-L43 AND L25
SEL RN

FILE 'REGISTRY' ENTERED AT 10:34:10 ON 31 OCT 2005

L45 25 S E1-E25
L46 4 S L45 AND L1-L3
L47 5 S L45 AND P/ELS
L48 1 S L47 NOT L46
L49 5 S L46-L48
L50 20 S L45 NOT L49
L51 0 S L50 AND L4-L10
L52 7 S 504-75-6 OR 9005-53-2 OR 106392-12-5 OR 50852-11-4 OR 1330-69
L53 11 S 75-56-9/CRN AND 75-21-8/CRN AND 2/NC NOT IDS/CI
L54 8 S L53 NOT (P OR N)/ELS
E C19H32O3S/MF
L55 124 S E3 AND 46.150.18/RID AND 1/NR
L56 8 S L55 AND TRIDECYL?
L57 7 S L56 AND BENZENESULFONIC
E C18H29O3S/MF
L58 19 S E3 AND 46.150.18/RID AND 1/NR
L59 6 S L58 AND DODECYL?
E C18H30O3S/MF
L60 183 S E3 AND 46.150.18/RID AND 1/NR
L61 20 S L60 AND DODECYL?
L62 17 S L61 AND BENZENESULFONIC
E C10H8O3S/MF
L63 11 S E3 AND C6-C6/ES AND 2/NR
L64 6 S L63 AND NAPHTHALENESULFONIC

FILE 'HCAPLUS' ENTERED AT 10:44:35 ON 31 OCT 2005

L65 65 S L52,L54,L57,L59,L62,L64 AND L25
L66 582 S (AMIDE? OR PHENOL? OR ALCOHOL? OR PHOSPHATE? OR LECITHIN? OR
L67 582 S (AMIDE? OR PHENOL? OR ALCOHOL? OR PHOSPHATE? OR LECITHIN? OR
L68 0 S L44 AND L28
L69 5 S L28 AND L65-L67
L70 1 S L44 AND L65-L67

FILE 'REGISTRY' ENTERED AT 10:49:01 ON 31 OCT 2005

L71 6 S 577-11-7 OR 9004-99-3 OR 50-70-4 OR 50-99-7 OR 25322-68-3 OR

FILE 'HCAPLUS' ENTERED AT 10:50:09 ON 31 OCT 2005

L72 117 S L71 AND L25
L73 1 S L28 AND L72

L74 1 S L44 AND L72
L75 17 S L28,L44,L69,L70,L73,L74
L76 17 S L75 AND L11-L44,L65-L70,L72-L75
L77 16 S L76 AND ?AMMON?
L78 7 S L76 AND (NH3? OR NH4?)
L79 17 S L77,L78
SEL HIT RN

FILE 'REGISTRY' ENTERED AT 10:52:52 ON 31 OCT 2005

L80 36 S E1-E36
L81 16 S L80 AND L1-L3
L82 4 S L80 AND L4-L5
L83 16 S L80 NOT L81,L82

FILE 'HCAPLUS' ENTERED AT 10:55:44 ON 31 OCT 2005

FILE 'REGISTRY' ENTERED AT 10:55:58 ON 31 OCT 2005

FILE 'HCAPLUS' ENTERED AT 10:56:39 ON 31 OCT 2005

FILE 'WPIX' ENTERED AT 10:57:35 ON 31 OCT 2005

L84 2079 S L13/BIX OR L14/BIX OR L15/BIX OR L16/BIX
E PHOSPHONOMETHYL GLYCIN/CN
L85 1 S E5
SEL SDCN
EDIT /SDCN /DCN
L86 665 S E1-E2
L87 832 S 2072/DRN
L88 2309 S L84,L85,L87
L89 4652 S L19/BIX OR L20/BIX OR L21/BIX OR L22/BIX
E AMMONIUM BICARBONATE/CN
L90 1 S E3
SEL SDCN
EDIT /SDCN /DCN
L91 517 S E1
L92 4827 S L89,L91
L93 7 S L88 AND L92
L94 139 S GLYPHOSPHATE/BIX
L95 2 S L94 AND L92
L96 7 S L93,L95
L97 315 S (PHOSPHONO METHYL GLYCIN?)/BIX
L98 7 S L88,L94,L97 AND L92
L99 7 S L96,L98

FILE 'WPIX' ENTERED AT 11:01:50 ON 31 OCT 2005

E R02072+ALL/DCN

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